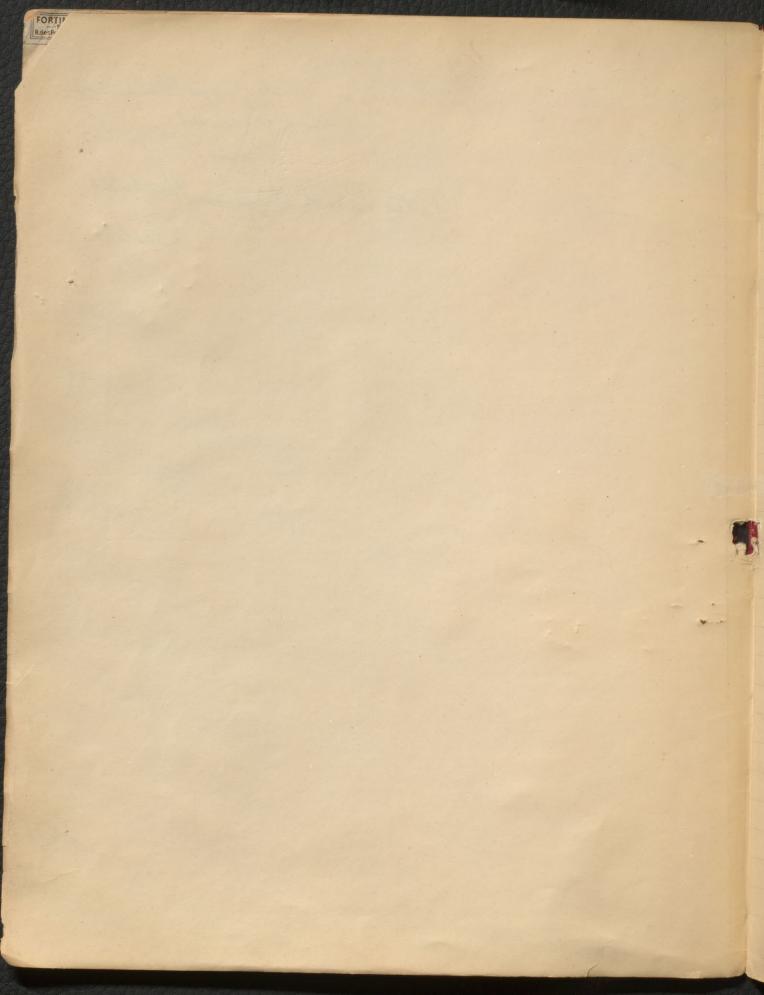


M.G. Penfield. Cimerican Red Cross Hospital 6 Rue Piccini Paris. Peter Bent Brigheam Haspital Boston.



apparatus of Dr. Blake.

DIMENSIONS OF FRAMES 261 cm.

Sinclair Shate.



I he strips of felt are sewed to small curtain rings. Each strip is cut as desired and glied to foot (Heussuers glue gave good results) The two posterior strips are run a little way up tendo. achilles. Strips are bound on wich boundage while drying. The shate is well padded and attached several hours Cater. By adjusting the cross bar the leg should be kept in external rotation. By alteration of the attachment of the extension rope inversion of foot may be provided. Raising and Lowering the slenge supports of the leg lowers or raises the toe is decreoses or miceleses the dorsiflexion.

as in other extensions of leg an average of 4 lbs. is Sinclain Skata





Heussners Glue for Extension

 (1) Formule: Colophane.
 50.0

 Alcool à 90 0/0.
 50.0

 Térébenthine de Venise.
 1.0

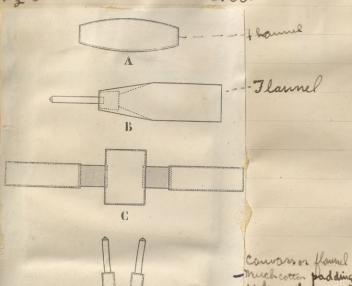
 Benzine.
 10.0

underneath

Patient must be shaved Bandon on for /2 hour Glue will then hold well Soluble in alcoholy ether.

Common glue 200 Shymol 4 Calcium Chloride 4 Glycerine 8 94 0 200.

no need to shave patient. Dissolves in water. must be heated each time before use. To very messy.



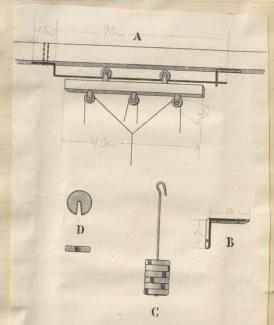


Fig. 2. — A) Bande pour supporter un membre lorsqu'il est fixé dans une attelle.

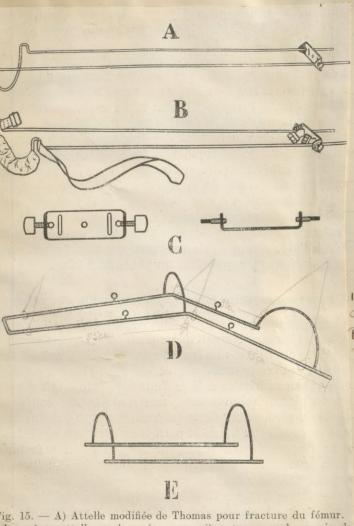
B) Bandes d'ortensie

1)

B) Bandes d'extension en finette à coller sur le membre.

C) Support pour empêcher la chute du pied: la partie centrale, plus large, est placée à la plante du pied; les parties ombrées sont en tissu élastique.

D) Guêtre pour l'extension lorsque les bandes adhésives ne peuvent pas être employées. Fig. 1. — A) Détails du trolley. La barre en fer du trolley est recourbée à son extrémité gauche et fixée à la barre en bois située au-dessus; son extrémité droite, au contraire, passe dans un trou pratiqué dans l'équerre B), laquelle est elle-même fixée à la barre en bois du dessus. C) et D). Détails du poids en plomb.



HooksonHodgins are misplaced. Points of altach ment for best results in legare shown.

Fig. 15. — A) Attelle modifiée de Thomas pour fracture du fémur. 3) La même attelle rembourrée, avec pièce transversale munie de

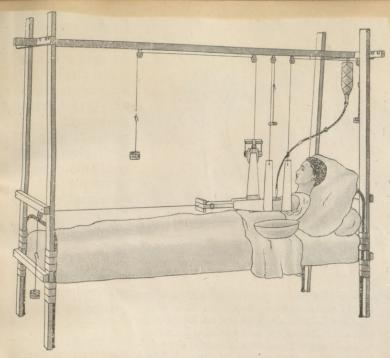
Détails de la pièce transversale.

) Attelle de Hodgens.

E) Cadre en fer pour la suspension de l'avant-bras.



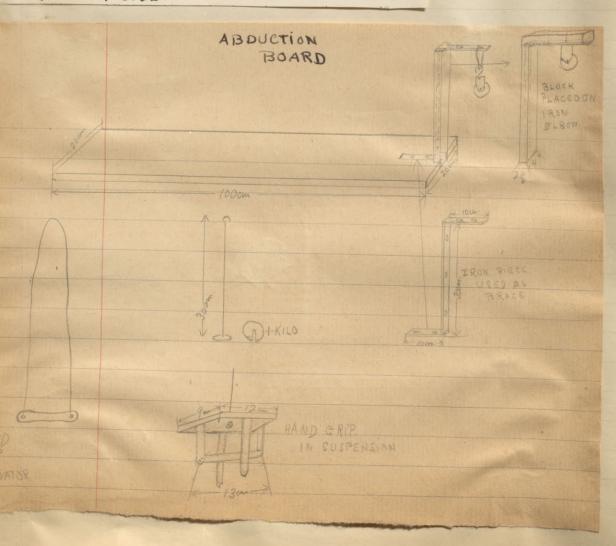
FRACTURE OF HUMERUS. SUSPENSION, EXTENSION ABDUCTION POR ABDUCTION Abduction board as shown is placed between spring and mattress + held in place by pt.'s wat.

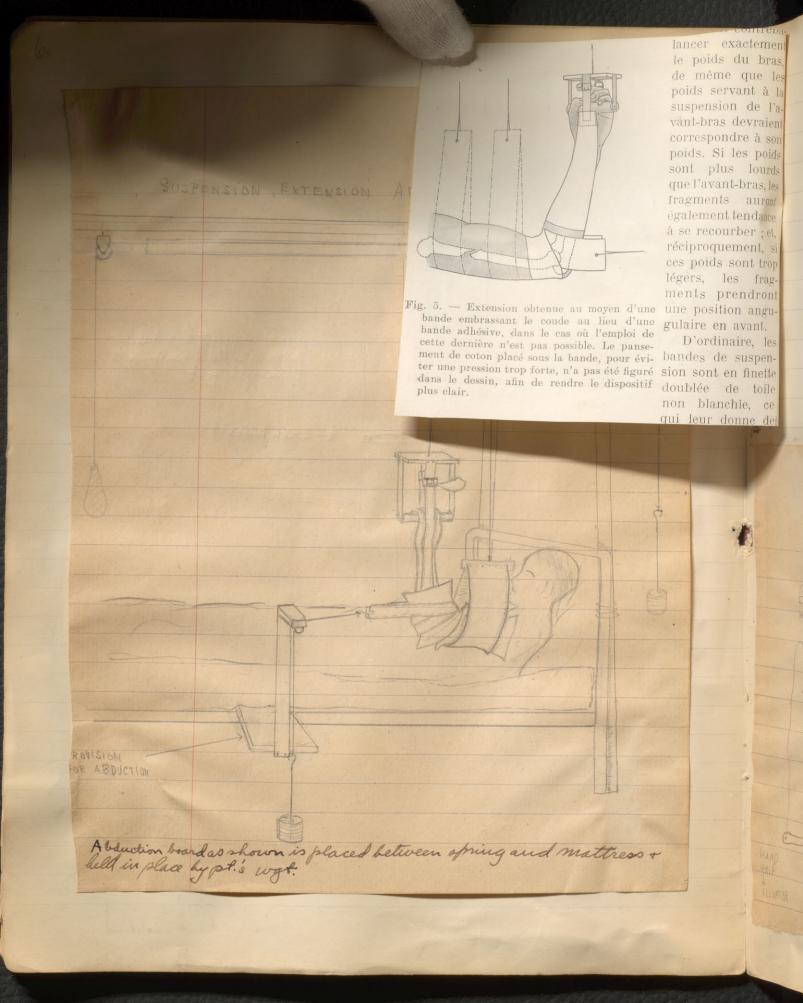


Extension of humerus is obtained by means of Hennegen band or Barley Caldwell strap not by glue as shown here.

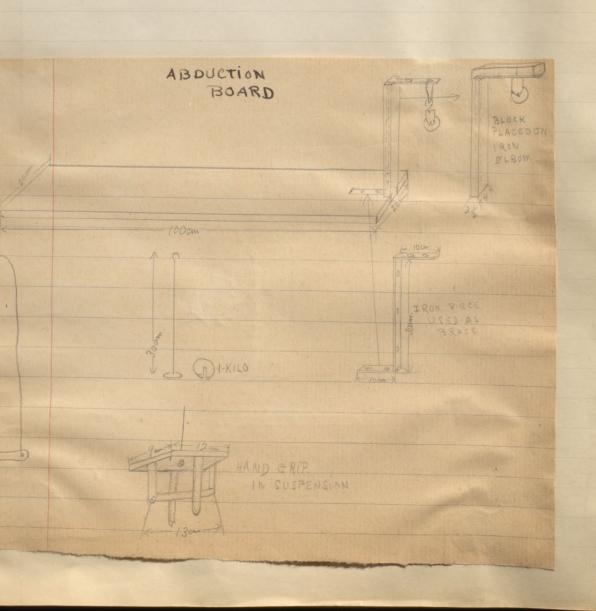
Fig. 4. — Fracture de l'humérus. Les bandes de suspension du bras sont en place. Application de l'irrigation continue.

SEE OTHER SIDE

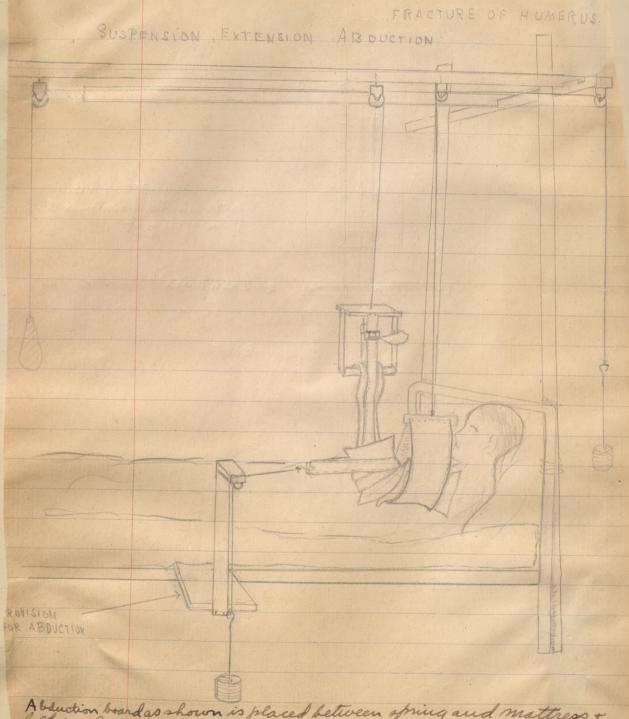




Extension of humerus is obtained by means of Hennegan band or Barley Caldwell strap not by glue as shown here.



6.

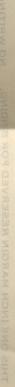


Abduction board as shown is placed between spring and mattress + held in place by pt.'s wat.

THE PRESENTERIAN HOSPITAL IN THE CITY OF JEW YORK

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NAME	DATE	HISTORY NO.
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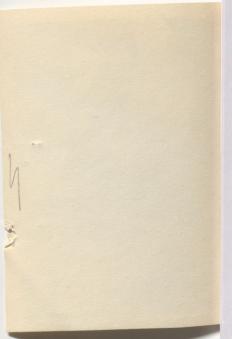










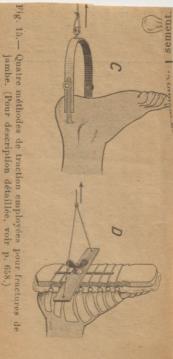












Il y a donc lieu, par conséquent, de la modifier | de tarla pour chaque cas. Ainsi qu'il a déjà été exposé il faut radiographier chaque fracture, au lit même du blessé, après que la réduction clinique en a à propos des fractures du membre supérieur, été obtenue, ayant toujours pour objectif l'alignement des deux fragments sur le même axe.

Pour le traitement des fractures du fémur, on peut obtenir la traction de trois façons diffé-

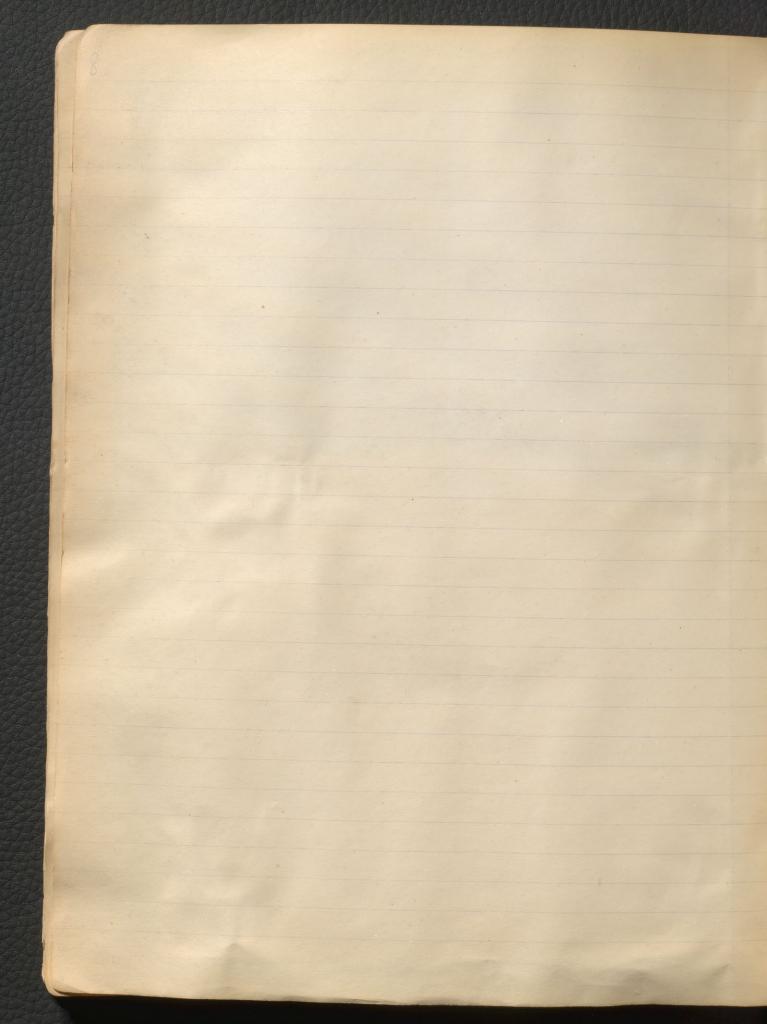
1º Par bandes collées;

2º Par traction exercée directement sur le squelette, comme par exemple avec la broche de

Steinman on la bande de Finnohotto.

blable pr Il est évi de la cuis plâtré p en forme C'est là, est impos après av bande de geur, on





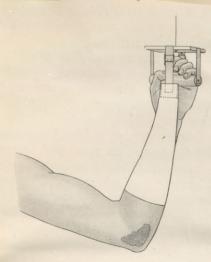


Fig. 6. — Détail de la suspension du bras pour plaies impliquant l'articulation du coude, montrant l'application des bandes adhésives sur l'avant-bras, et la poignée pour les doigts. Cette poignée est suspendue à la planchette par des bandes d'élastique et la tension de celles-ci est déterminée soit en raccourcissant, soit en allongeant les bandes adhésives au moyen de boucles.

moyenne, elles sont larg de 30 cms. pour l'avant-l la cuisse.

Les bouts étroits des b et fixés avec des épingle facilement ajuster le sur

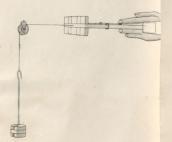
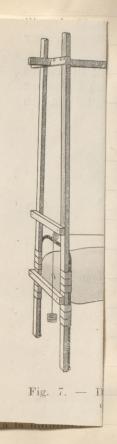


Fig. 8. — Détail de l'app fractu

de faire de l'irrigation co on peut employer une seu



See Case + ficture - p. 33.

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glued to fingers

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Countirextension

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moyenne, elles sont larges au milieu de 12 cms. et longues de 30 cms. pour l'avant-bras et la jambe, et de 45 cms. pour la cuisse.

Les bouts étroits des bandes sont passés autour des barres et fixés avec des épingles de sûreté de manière à pouvoir facilement ajuster le support du membre. Lorsqu'il y a lieu

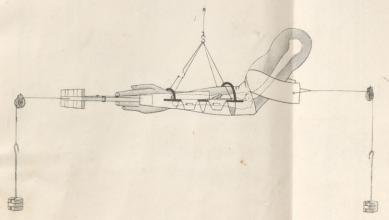


Fig. 8. — Détail de l'appareil d'extension et de suspension pour fractures de l'avant-bras.

de faire de l'irrigation continue ou des pansements humides, on peut employer une seule bande de toile caoutchoutée dont le largour devra correspondre à la longueur de

See Case + picture - p. 33.

Extension is

secured also

with glove
glued to fingers

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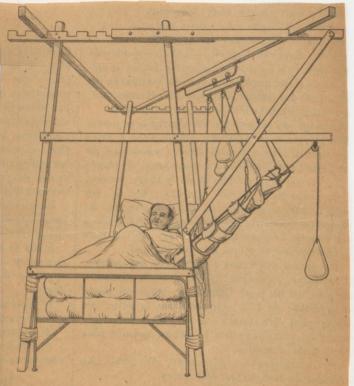


Fig. 12. — Utilisation de l'attelle droite et méthode de traction. Noter la disposition du cadre situé au pied du lit, l'abduction prononcée du membre, l'angle de la grande barre supportant le membre et ayant presque la même direction que lui, ainsi que la méthode du tourniquet pour obtenir la traction du membre dans l'attelle. — Remarquer également la bande plantaire destinée à éviter la chute du pied.

té avec la dans leur

^{1.} BLAKE. — Arch. de Méd. et de Pharmacie militaires, Paris, 1916, LXVI, 57.

rnière sont cloués deux morceaux e ruban élastique. Aux deux bouts ores de ces élastiques est fixée une guette ronde en bois. Elle doit être ajustée

guette ronde en bois. Elle doit être ajustée de lle sorte que les doigts étendus puissent la sair, afin de faire quelques exercices, mettant en jeu élasticité des rubans. Ce dispositif est important, n particulier dans les lésions du nerf radial.

La corde de suspension de l'avant-bras monte lors et va passer dans une poulie fixée à l'une es barres longitudinales situées au-dessus du t. Cette barre, spéciale à l'avant-bras, est placée 20 cm. (ou plus) en dehors de la barre servant

la suspension directe du bras (fig. 6). On btient par ce moyen la rotation externe du ragment inférieur, résultat qui serait difficile à equérir si le bras et l'avant-bras étaient tous deux fixés sur un même axe longitudinal.

La poulie soutenant l'avant-bras est placée, d'ordinaire, suffisamment loin dans la direction du pied du lit, pour donner au coude un angle d'ouverture de 135° environ. Dans la suite, cet angle peut être ramené à 90°; mais un angle assez ouvert, donné dès le début, permet plus facilement la traction.

Si la traction est nécessaire, elle peut être obtenue de deux façons différentes :

a) L'emploi des bandes collées sur chaque face latérale du bras est très efficace et donne une onne traction du fragment osseux inférieur (fig. 5). Egalement dans ce cas, on se sert d'une planchette de traction, dépassant de 2 cm. la largeur du coude, afin d'éviter la pression laté-

dans l'axe de le cas de bles placer une pansement e extension pro suffisante po l'humérus. P faut encouragles articulation et des doigts devront être

La question sera exposée chaque fractu

Selon la ha envisager, en apporter aux dessus:

- 1º Fracture résections de
 - 2º Fracture 3º Fracture résections du

Hum y compris

Les fracture être traitées a la suite des 1 faut pas emp doit pas cher tations radiologiques recueillies au lit même du blessé.

Dans les fractures du tiers supérieur de la diaphyse humérale, en dessous du col chirurgical de l'humérus, la traction est en général nécessaire, mais dépasse rarement 2 kilogr. Elle peut être faite à l'aide de bandes collées. Quant à la suspension, on l'établit comme à l'ordinaire.

Les indications de l'abduction à donner au membre seront fournies par l'importance des lésions musculaires reconnues. En effet, si les in-

d'interrompre la traction deux fois par jour, afin de pouvoir pratiquer la mobilisation active et passive des petites articulations des doigts. La supination extrême est rarement nécessaire. Un degré un peu moindre suffit à empêcher l'union entre les deux os de l'avant-bras.

Dans les cas d'œdème considérable, il est parfois utile

nt-bras en posià l'aide du gant, des collées. at des blessures toutes les fracde l'armée décrite par

La parti faire pressi nières, aux parallèles.

Ce dispo remment p gauche. A sont unies non rectilig tion de la ra à sa partie rnière sont cloués deux morceaux e ruban élastique. Aux deux bouts ores de ces élastiques est fixée une guette ronde en bois. Elle doit être ajustée de

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- 1º Fracture résections de
 - 2º Fracture 3º Fracture résections du

Hum y compris

Les fracture être traitées a la suite des r faut pas emp doit pas cher que l'on puisse attendre de cette intervention c'est l'ankylose, bién que ce soit très souvent le « bras en fléau » que l'on observe. on obtient une très bonne traction en se servant d'un gant, ainsi que le montre la figure 10. La main

du genou peut être modifié métallique pour suspensie page 656.)

est d'abord copieusement enduite de colle, puis recouverte d'un gant de coton blanc, portant à l'extrémité de chacun des doigts un petit anneau métallique. La traction est faite par l'intermédiaire des doigts et demande un poids de 1 kilogr. 1/2 environ.

Il faut prendre grand soin d'interrompre la traction deux fois par jour, afin de pouvoir pratiquer la mobilisation active et passive des petites articulations des doigts. La supination extrême est rarement nécessaire. Un degré un peu moindre suffit à empêcher l'union entre les deux os de l'avant-bras.

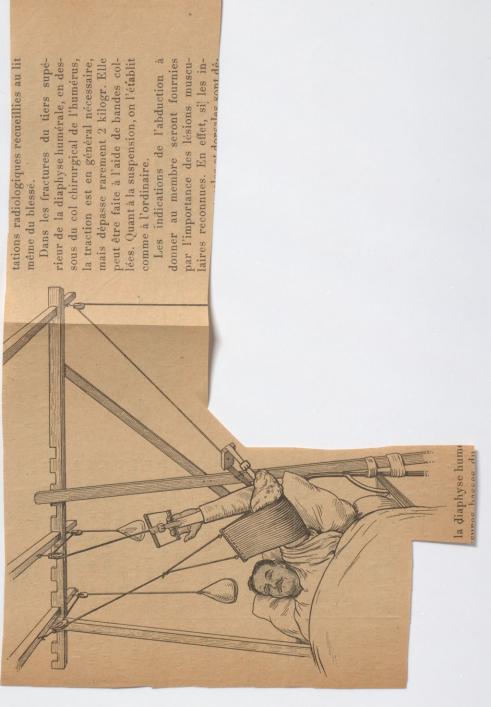
Dans les cas d'œdème considérable, il est parfois utile causes les ces blessur

Toutes le qu'elles si figure 11, d'attelles h de chacune tement de ticulier. L' de cette p apportée pa de l'armée décrite par

La parti faire pressi nières, aux parallèles.

Ce dispo remment p gauche. A sont unies o non rectilig tion de la ra à sa partie

nt-bras en posià l'aide du gant, des collées. at des blessures e toutes les frac-





ruites, il y aura lieu de donner plus l'abduction au membre que si ces in-D'une manière générale ces fractures parvient très simplement ainsi qu'il demandent une abduction de 60°. On sertions étaient conservées. st indiqué figure 7.



Fig. 7. — Méthode simple permettant d'obtenir l'abduction et la traction du bras à l'aide d'une planche non rabotée, glissée entre le matelas et le sommier, et maintenue en place par le poids même du blessé. (Voir le texte « Humérus », tiers supérieur.)

il est donc préférable de ne pas la couper.

Chaque montant vertical mesure 2 mètres de hauteur. La longueur des barres transversales dépend de la largeur du lit employé. Pour les lits du Service de Santé, la barre supérieure mesure 1 mètre, et la barre ioférieure 75 cm.

ummuer la resi

obtenu; de plus, pour le traitement de la blessure elle-même, on acquiert ainsi toutes les plus grandes facilités.

Par cette méthode, soigneusement contrôlée par l'examen radiologique pratiqué au lit même du blessé, on obtient sans peine l'alignement parfait des fragments osseux.

L'appareil de suspension consiste en deux sortes de cadres (un à chaque extrémité du lit du blessé) reliés l'un à l'autre au-dessus de ce lit par deux, ou même plusieurs longues barres parallèles et longitudinales.

Chaque cadre est constitué par deux montants réunis entre eux par deux barres transversales. La barre inférieure est placée au niveau du bord supérieur du matelas. La barre supérieure est fixée très haut sur le montant, pas trop haut toutefois, afin de ne pas fendre le bois en plaçant les vis. Cette barre transversale supérieure est munie, à sa partie supérieure, d'encoches destinées à recevoir les grandes barres longitudinales.

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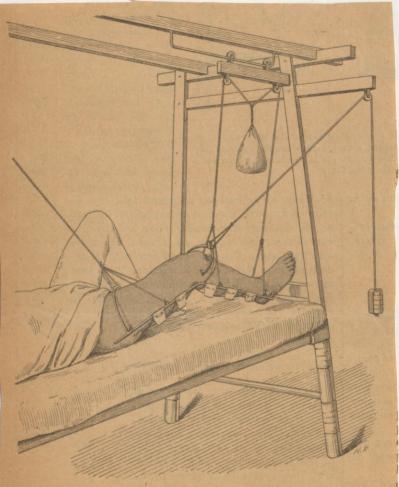


Fig. 13. — Dispositif pour fracture du tiers supérieur du fémur, où a été employée la broche de Steinman. Noter la flexion du genou, l'abduction et la rotation externe du membre.

La bande plantaire contre la chute du pied n'a pas été figurée ici, pour plus de clarté du dessin. (Voir le texte page 657.)



le jambe. L'attelle est courbée à 1350 envimilieu, est repaésentée comme attachée trop hauteur du genou, environ, on parvient à exte page 658.)

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de flexion ne se fera pas au genou (qui sera devenu raide), mais au point de fracture, et les 'fragments devront être remis, bout à bout. Un enroulement de bande au niveau du mollet maintient alors l'attelle, par l'extrémité distale de laquelle se fait ensuite la traction. Pour avoir un bon résultat, il faut pratiquer une forte traction avant de changer d'attelle, afin que les muscles se trouvent suffisamment étirés, et que tout chevauchement soit

FRACTURES DU TIBIA ET DU PÉRONÉ.

Toutes les plaies et fractures de la jambe se guérissent beaucoup plus vite, si le membre est mis en suspension. C'est là une règle générale. Pour cela, on se sert d'une attelle de Hodgens courbée à 135°, disposée ainsi que le montre la figure 14. La jambe placée au milieu de l'attelle repose sur les bandes ordinaires (v. fig. 4). L'appareil est suspendu par le trolley précédemment décrit. La contre-extension est obtenue par l'in-

puis a attenure le chetto. E début de la réunion des fragments. Le siège de la fracture est encore fibreux et flexible. On retire alors l'attelle droite. pour la remplacer par une attelle de Hodgens courbée à 110° environ. Lorsque le membre est fléchi dans cette attelle, le mouvement

bande pla La figu Smith, u et utile. I les dimer pied. Dan dix encoc vant son

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La tête viendra extrémite recoit, à garnit d' La barre





6. — Dispositif de suspension pour fracture mérus. Remarquer l'usage de trois barres longitules, la plus externe des trois servant à soutenir nt-bras, en maintenant le fragment inférieur de térus en rotation externe. (Se reporter au texte mérus », observations générales.)



le jambe. L'attelle est courbée à 135° envimilieu, est repuésentée comme attachée trop hauteur [du genou, environ, on parvient à exte page 658.]

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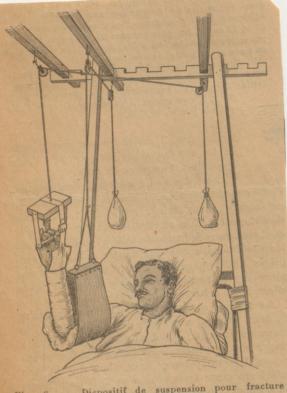


Fig. 6. — Dispositif de suspension pour fracture d'humérus. Remarquer l'usage de trois barres longitudinales, la plus externe des trois servant à soutenir l'avant-bras, en maintenant le fragment inférieur de l'humérus en rotation externe. (Se reporter au texte « Humérus », observations générales.)

deux épaisseurs de mousseline non blanchie. Elles existent en deux dimensions, les plus petites mesurant 40 × 12 cm. et les plus grandes 60 × 20 cm. Avec les pansements humides, on utilise des bandes semblables en tissu caoutchouté, double face.

B, Forme des bandes de traction à coller sur la peau. Elles se font en finette en deux dimensions : Petite taille pour l'ayant-bras et la plante du pied,

 25×8 , non compris les rubans. Grande taille

pour la jambe, 40×15 .

trolley (fig. 3) consistant en une tringle de fer sur laquelle vient glisser, à l'aide de poulies, une pièce de bois.

Cette tige de fer a 10 mm. de diamètre, et 90 cm. de longueur. L'une de ses extrémités est courbée deux fois à angle droit, en forme de baïonnette. Elle est destinée à être fixée par quelques tours de bande de toile à l'une des barres longitudinales, après que l'autre extrémité rectiligne a été engagée dans un trou percé dans une pièce de fer recourbée à angle droit et vissée elle-même à la barre longitudinale.

A cette tige est suspendue, par l'intermédiaire de deux poulies, une barre de bois de 40 cm. de longueur environ; ces deux poulies, destinées à rouler sur la tringle, sont fixées à la face supérieure de cette pièce de bois, alors que la face inférieure porte trois poulies pour la suspension du membre. On peut employer, soit des poulies à crochet, soit des poulies à vis. Ce dernier modèle nous semble être plus facilement ajustable.

Les poids sont ordinairement de 500 gr. Toulefois pour un réglage précis, et lorsque les poids



deux épaisseurs de mousseline non blanchie. Elles existent en deux dimensions, les plus petites mesurant 40×12 cm. et les plus grandes 60×20 cm. Avec les pansements humides, on utilise des bandes semblables en tissu caoutchouté, double face.

B, Forme des bandes de traction à coller sur la peau. Elles se font en finette en deux dimensions : Petite taille pour l'avant-bras et la plante du pied,

25 × 8, non compris les rubans. Grande taille

pour la jambe, 40 × 15.

trolley (fig. 3) consistant en une tringle de fer sur laquelle vient glisser, à l'aide de poulies, une pièce de hois.

Cette tige de fer a 10 mm. de diamètre, et 90 cm. de longueur. L'une de ses extrémites est courbée deux fois à angle droit, en forme de baïonnette. Elle est destinée à être fixée par quelques tours de bande de toile à l'une des barres longitudinales, après que l'autre extrémité rectiligne a été engagée dans un trou percé dans une pièce de fer recourbée à angle droit et vissée elle-même à la barre longitudinale.

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Les poids sont ordinairement de 500 gr. Toulefois pour un réglage précis, et lorsque les poids



moyenne, elles sont larg de 30 cms. pour l'avantla cuisse.

Les bouts étroits de l' et fixés avec de: facilement ajuste



Fig. 8. — Détail de

de faire de l'irrigati on peut employer un le largair devra cor







puis a attenure le début de la réunion des fragments. Le

chetto. E

deux épaisseurs de mousseline non blanchie. Elles existent en deux dimensions, les plus petites mesurant 40×12 cm. et les plus grandes 60×20 cm. Avec les pansements humides, on utilise des bandes semblables en tissu caoutchouté, double face.

B, Forme des bandes de traction à coller sur la peau. Elles se font en finette en deux dimensions : Petite taille pour l'avant-bras et la plante du pied, 25 × 8, non compris les rubans. Grande taille

pour la jambe, 40×15 .

on de la | de flé

le jambe. L'attelle

milieu, est repaésen

hauteur du genou,-

être emkilogr. enrou e et dé- main

la partie 1 l'autre quin ne la posil'abducnsertion à peine

vant que

en rota-

acé dans propriée, uis, susexterne; it utilisé trolley (fig. 3) consistant en une tringle de fer sur laquelle vient glisser, à l'aide de poulies, une pièce de bois.

ments Cette tige de fer a 10 mm. de diamètre, enrou et 90 cm. de longueur. L'une de ses extrémités maint est courbée deux fois à angle droit, en forme de lac de baïonnette. Elle est destinée à être fixée par un bo quelques tours de bande de toile à l'une des barres tion longitudinales, après que l'autre extrémité recmusel tiligne a été engagée dans un trou percé dans une étirés pièce de fer recourbée à angle droit et vissée corris elle-même à la barre longitudinale.

A cette tige est suspendue, par l'intermédiaire de deux poulies, une barre de bois de 40 cm. de

Tou longueur environ; ces deux poulies, destinées à la jam rouler sur la tringle, sont fixées à la face supévite, rieure de cette pièce de bois, alors que la face pensic inférieure porte trois poulies pour la suspension Pour du membre. On peut employer, soit des poulies à de Hocrochet, soit des poulies à vis. Ce dernier modèle ainsi cnous semble être plus facilement ajustable.

jambe Les poids sont ordinairement de 500 gr. Tourepose efois pour un réglage précis, et lorsque les poids (v. fig.

le troll

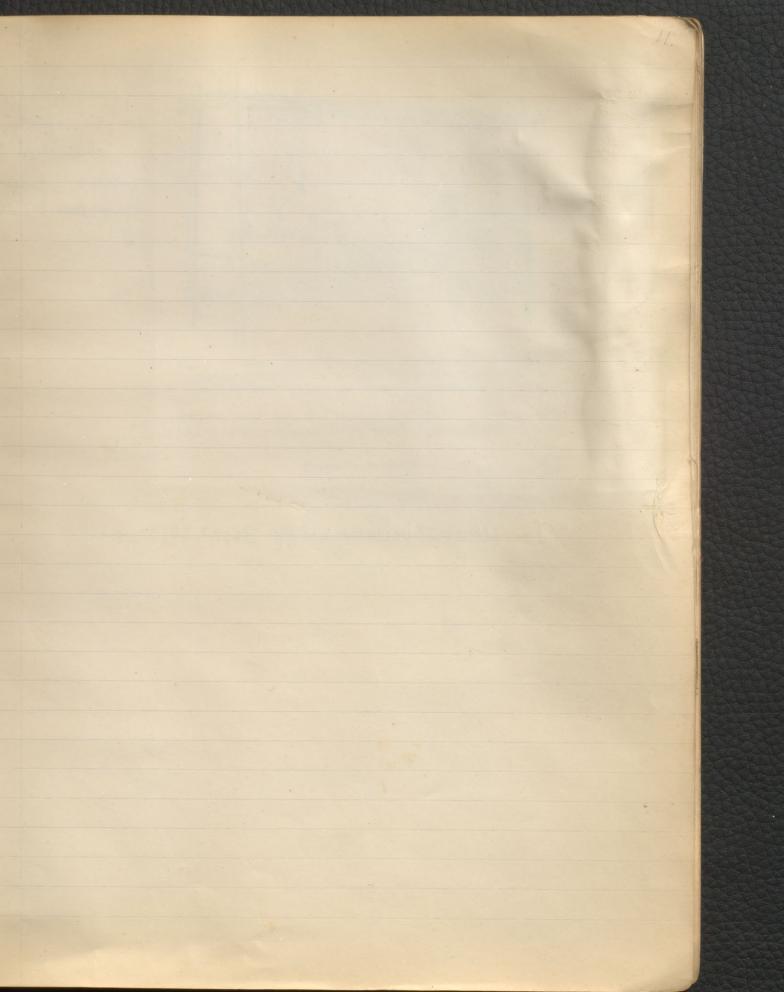




Fig. 10. — Traitement d'une fracture de la partie inférieure du fémur au moyen d'une forme modifiée de l'attelle de Thomas.

See over.

For illustrative Cases see pp. 36,37,38,39,40

I practive is high the leg is put up in abduction to follow seeperion grogment out.

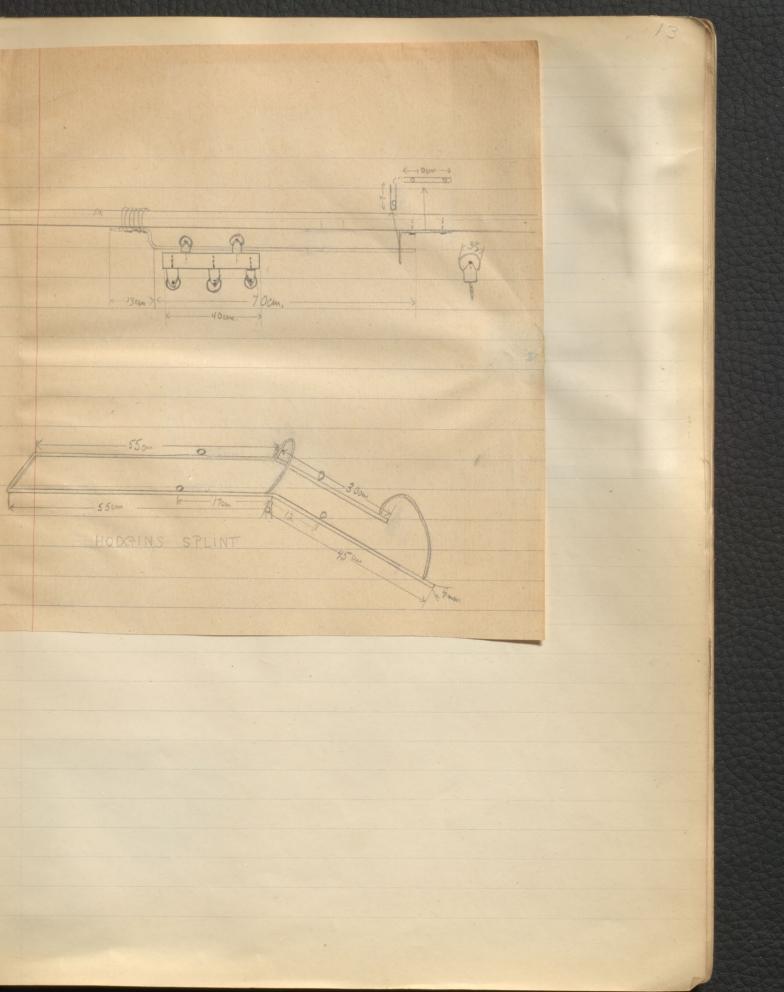




Fig. 12. — Dispos de l'appareil pour le traitement de fractures du tibia et du roné. — Le dessinateur a oublié d'indiquer la planchette d'écement des bandes d'extension.

See over



apparatus for correction of toe drop and exercise of lea muscles.

Attachment dis made to the foot of the bed by means of a cord.

Besistance to the movements of the foot is made by means of a kinge oping, the intensity of which pressure may be regulated by advancing the prop(A).

When this apparatus was afflied to patient shown in picture he lead no control of movement at the aught dece to discess. In two weeks a certain degree of so voluntary motion had returned.

apparatus for Correction of Loe drop

Hinged foot feeds piece is drown

upward by elastic. The whoe

is wired to a posterior moulded

plastic officient extending from

below the buce to the bulble.

The flaster officient was made on

a heavy wire from end

small seines in corporated which

were after ward fastured to the

lighters of the apparatus.

The patient walked on creekly

revers put some wat. on foot.



courroles som resserrees dans a exercée sur l'extrémité inférieure du fér tension est obtenue par la pression de l'e Fig. 13. — Détails d'application de la guêtre par la bande adhésive pour empêcher la chute de sement de coton placé sous la guêtre n'a par dessin afin de rendre le dispositif plus clair de l'appareil contre l'ischion. L'attelle el le membre supporté par les bandes pas d'une barre à l'autre, on peut le porter dans direction sans déranger la position relative



and exercise of lea muscles.
Attachment is made to the foot of the bed by means of a cord.
Besistance to the movements of the foot is made by means of a kinge of rule of the fire of the pring, the intensity of which pressure may be regulated by advancing the prop(A).

When this apparatus was afflied to patient shown in picture he lead no control of movement at the aught dece to discess. In two weeks a certain degree of so voluntary motion had returned.

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Hinged foot feeds piece is drown

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plaster offint extending from

below the buse to the subsle.

The flaster offinit was made on

a heavy wire from end

small wires in corporated which

were after ward fastured to the

lighters of the apparatus.

The patient walked on creekly

revery put some wigt. on foot.

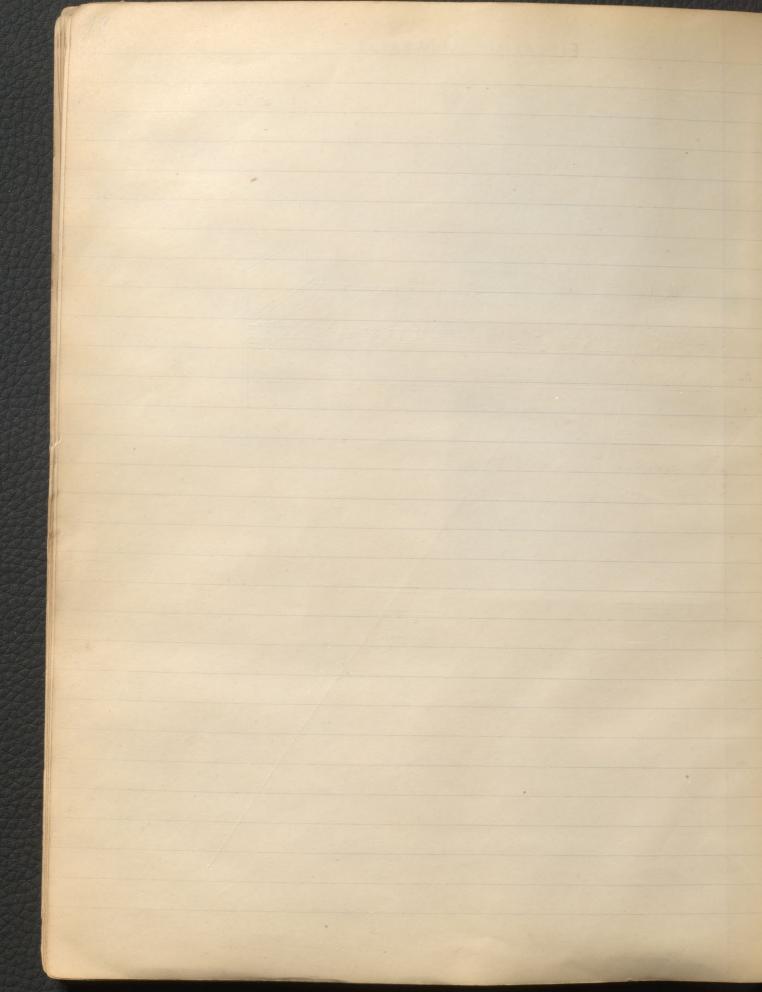






For case sue pp. 30,31.

ELEVATING APPARATUS CASE LANGLOIS FRACTURE HEAD FEMUR + ACTIANULYM



Dr. allison.



CI

PLASTER SPLINTS - LEG

CIRCULAR LEG PLECE

Lateral leg piece I umed over.

73cm

Layers of crinolin 10 pieces thick + folded over rather than out.

Crinolin pieces seen in use at the Front for platter work, by Dr. Blake + Captain allison. They reported that they a our men walking, who had broken fibula + tilis, three days after the application of the plaster + some who had used the same for 3 months with out a bed some appearing.

See page 129 of Lapparcellage dans les Fractures de guerre.

Leles none Probe of Dr. Bulkley - (asused by him in M. 4.) apparatus - Two earpieces like wireless receiver - Each contains an electromagnet of would with fine wiae (apper) of 1500 ohus resistance making 3000 ohus. Judifferent electrode - rod of carbon to be placed in mouth, rection, of vagina (Thisoborates skin resistance). Other electrode large serving needle sheleced up to within & cu. On passing electrode into flesh or wound the contact with tessues gives a little click. On touching metal (including lead one hears a rasping sound plainly. Take care next to be near a large dynamo or mognet & iron & not on iron Dr. Bulkley finds the sauce westrument with 1200 olives resistance (in all) is most satisfactory arthis gives us click on meeting tissue best only metal. Glee Lendait. Insistence is obtained. Before use it must by be heated. The principle advantage of this gless over Leusmers is Chat there is no necessity to shave the pro and I find a less outing actory.

00+:	0	4 BO 1			
Solutions in use	or presumes - 5	gen-ec.			
Solutions in use f	3. nophthol	1			
	5 0 11 0				
	Sod. Hydroxide				
	H20	1000		1	
		1	guirce.		
2. quinine	Quin ine Hyd	rochloride	()	The state of the s	
	an an		e (uo	ed only	
V	Make		(wi	th achtic	
	Guinine Hyd Mall Hyd		1000 Just	see below.	
2 9 1 . 0 . 1	0		PI P.		
3. Lodeum Gecarb.	- Lodeim &	ecarb.	gm. ce PI P., 10040		
3. Lodeim Becarb.	nacl H20		28		
	0/1		*		
	1420		1800		
4. Cectic	D. # . D	: 1 (gras	5		
1. Ceclic	acette te	cid (90go)			
	hall		8		
	H20	//	100		
	1120	1			
	1				
(To make up t	be rucech su	sed arel	tic & Curio	iii.	
1: 1: 1	1	1.	1	-0	
convene no avo	ve formulae.	making &	and streng	this	
Combine two above formulas making same strengthise Junione 1 gm. acetic 5 gms. Nacl 8.					
	2	0			
5. Carrel Modefical	ion of Vakin	o Solutios	- Daufre	sue Formula	
Proporation of sauce	o ho lar		0		
(a) I south of race	1 40 01	114.0	1.1		
Thethod employed	at carrie of	ospelal Cos	upee que.)	ame:	
(1) Acurately weigh.	Planise of	Pina Cabo	notes	910	
)	0.100	- Cape	1/2.5	200	
5. Carrel Misdifical Preparation of raw (Method surployed (V) Scurately weigh.	Oried Carbon	ste of lada	haz Co3	100	
	Bicarbonate	4 4	naHCa.	80	
61 02			ordinary		
(2) Place Chloride of live in (2 L. bottle add 5 L. water and shake					
(2) Place Chloride of line in (2 L. tottle add 5 L. water and shake several times, at intervals + allow to stand over night.					
(21)	Taxoc	- wand	ou rugar.		

Leles none Probe of Dr. Bulkley - (assessed by him in M.4.) Apparatus - Two earpieces like wireless receiver - Each contains an electromagnet of would with fine wine (opper) of 1500 olives resistance making 3000 ohims. Judifferent electrode - rod of carbon to be placed in mouth, rection, & vagina (Thisoborates skin resistance). Other electrode-large sewing needle shelaced up to within & cu. of point. (Probe may be sechstituted) On passing electrode unto flesh or wound the contact with tessues gives a little click. On touching metal (including be near a large dynamis or mognet of ing & not on iron Dr. Bulkly finds the sauce nestrument with 1200 ohus resistance (in all) is most satisfactory arthis gives us click on meeting tissue best only metal. Glee Lendait. GLUE No 2 Water.....200 " Glycerine..... Calcium chloride..... Thymol..... above is I believe what Du Sinclair uses in histreatment of fractures. It must be boiled in South for les till deserved Consistency is obtained. Before use it must by be heated. The principle advantage of this gless over Leusmer's is that there is no necessity to shave the and I find in less astingactory.

		26			
Solutions in use 1	on Dressings - Dr. Blake	1			
1. B habithol	B. rophthol				
· p ragr	Sol. Hudravide				
	Sod. Hydroxide 1 H20 1000				
	H ₂ O 1000				
a 2 · · ·	0	quice			
2. quinine	Quin ine Hydrochloride Ma el	1000 Just only with actic asses below.			
V	Ma Ex	MAA assection			
	420) vectour.			
2 2 1	0	Grande Pr.			
3. Lodeim Becarb.	Lodeim becarb.	10040			
		98			
	2420	1800			
		No. of Street, or other party of the last			
4. Cectic	acetic acid (9090)	57			
	hael	8			
	Reetic acid (9090) na el H20	1000.			
(To make up ?	be ruch used Oc ve formulas making mo. racl 8.	etic & Guinine.			
combine two abo	ve formulae making	same strengthise			
Junine Jam. acetic 5	mo. racl 8.				
5. Carrel Mod Lical	tion of Daking Solute	- Day treams formula			
Preparation of man	e below.	on - Daufresne formula Prupiègne.) gmc. (00) 5 200 la Nor CO3 100 200			
mother suplower	at Carrel Haspital (Parcheiron			
(1) Assorthe winds	Planish of line 10	ane,			
is surarey weigh.	Die College Cal	200			
	Bind to the	hattes. 80			
	Bicarbonate " "	Matt Edg			
(3) (D) (1)	1. · 12 D 1 241 . 1	ordinary			
(2) Place Chloride of bine in (2 L. bottle add 5 L. water and shake several times, at intervals + allow to stand over night.					
several lunes, at	untervals + allow to stave	dover rught.			

(3) De isolve the Carbonate + Bicarbonate of soda in 5 L. of ordinary cold water H) furnall the solution of soda salts into the bottle of Chloride of line . Shake vigorously I min . & allow to stand to allow carbonate of line to settle to the bottom In about a hour replion of the clear lequid and filter thru filter paper in order to oftale a perfectly clear togue solution. This should be kept in a dark place. (Here solution is placed in large flask and from time to time is stirred up and poured outs vessel where it a the salt settles out and fluid is taken off from surface without filtering 3 adrep of Pot. permanganate is put in bottle before scuding to ward. Solution is now ready for Decracial use. It contains about 1/2 of o Sodium Hypochlorite with omall quantity of the neutral alt of solarm salts of sodain. It is markedly isotonic to blood serum. 20ec. sol. in beaker. Few centigrams powdered Phenol sulphophilhakin. Shake - Riquid should remain clear + estorless. Red Tinge indicates are appreciable ant. of free alkalion and in complete reaction with the carbonate chargeste to some facilities the technique of preparation

Standardization of Solution. 10 cc. Sol. 10 cc. distilléd water 2 gus. KJ. Ice aceticacid Pour into this solution a decenounal (2.480/4) solution of Hyposlelphite of soda in quantity just sufficient to decolorize it. If N. be the number of cc. of tryposulphile used. The percentage of hyptochlorite in the solution will be given by the equation: 070 = 1 X 0.03725 When complete add mough Pot. perman ganateto color pole manie. Errors to be avoided. never heat the solution If, in on emergency it is necessary to use a mortar to prepare the chloride of live. Do not ase anything with it but water. never add soda salto.

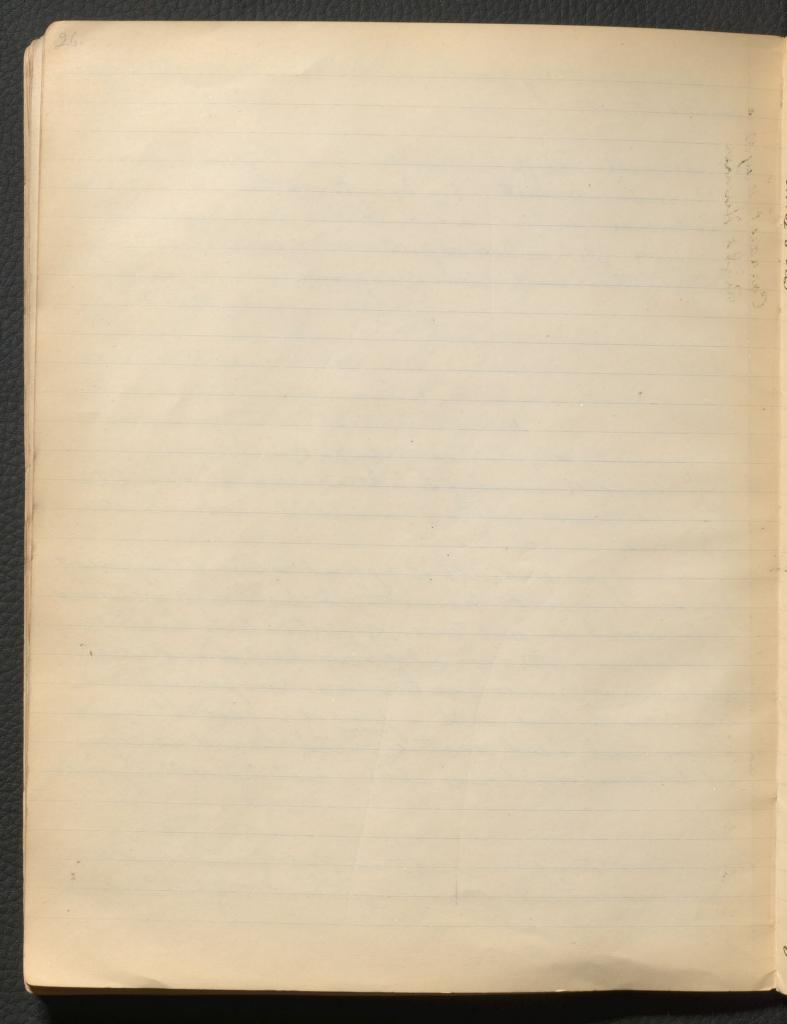
Ca (Olo) + Maz Co3 = Ca Co3 + 2 Ma Del Ca Olo + Maz Co3 = Ca Co3 + 2 ma el

B. 9. P. - Laucet aug 12, 1916 Rutherford Morrison - Bipp Procederre. (1) lender anaesthetic cover wound with gauge wrung out in 1-20 Carbolic - Clean skin & same. (2) Open wound freely+ inspect Cleanse cavity with dry sterile gauge, Valkmanns spoon etc. + remove FBs. (3) moss surrounding skin + wound cavity with mothestated Operato (Cotton wood on forceps.) (4) Fillup the whole wound with paste described below, clress with sterile gauge + cover with padabsorbent & boundage. no change of dressing required for days or weeks unless pair or earstillional elisturbana appear. If dis charge comes through the stained oft. must be soaked in spirit and a gause dressing wring out in the same be applied as a further dressing sovering. advantages cere most striking in cases of Compound fractiere of long bones. Redressing - Removed dressing, cover wound with a dossil of wool soaked in spirit and wife off dis charge front skin E wool of spirit. Plaster wound and small alea secrrous deing skin with paste, cover & gauge pad+ bandage. The above was used by Morrison in ald eases - not fresh. Where there is dauger of gaugnero he advises leaving the wound wide open't filled & Bipp. Howh of the bipp is dis charged + a small seines forms which in majority of eases healsquickly. "In the majorety of cases the mass appears to libe slowly absorbed. 40 cases breated without changing a dressing unexpectedly

Cendalways getting good results. No stitch sultures appeared about eatquit. The paste-Bipp.
Bismuth subnitrate 103. by wgt. Todoform lig. parassin 9.9. to make othick pack
application with two eggspoons. Bipp- used at 6 Rue Piccini by Sr. Wheel. (1) Lorge superficial would of L. buttock - excellent condition. Bacterial count felt to 8 in a field wich crigation by Dakins. fresheued. Result - brown thick discharge continued to be exuded for some time. 73 of return line held. 43 gapped undapter aperiod of to weeks I found there

fresheued. Result - brown thick discharge continued to be excided for some time. Is of seture line held. Is gapped undafter a period of to weeks I glowed there was a sinus under the secture liero. On opening this along the line with a period of ceissors I found a very thick hard cicatrise which showed no signs of doftening or gehange after repeated curettings of draw

(2)+(3) Two stamps were altered, flaps being brought down and settered after application of Ripp.

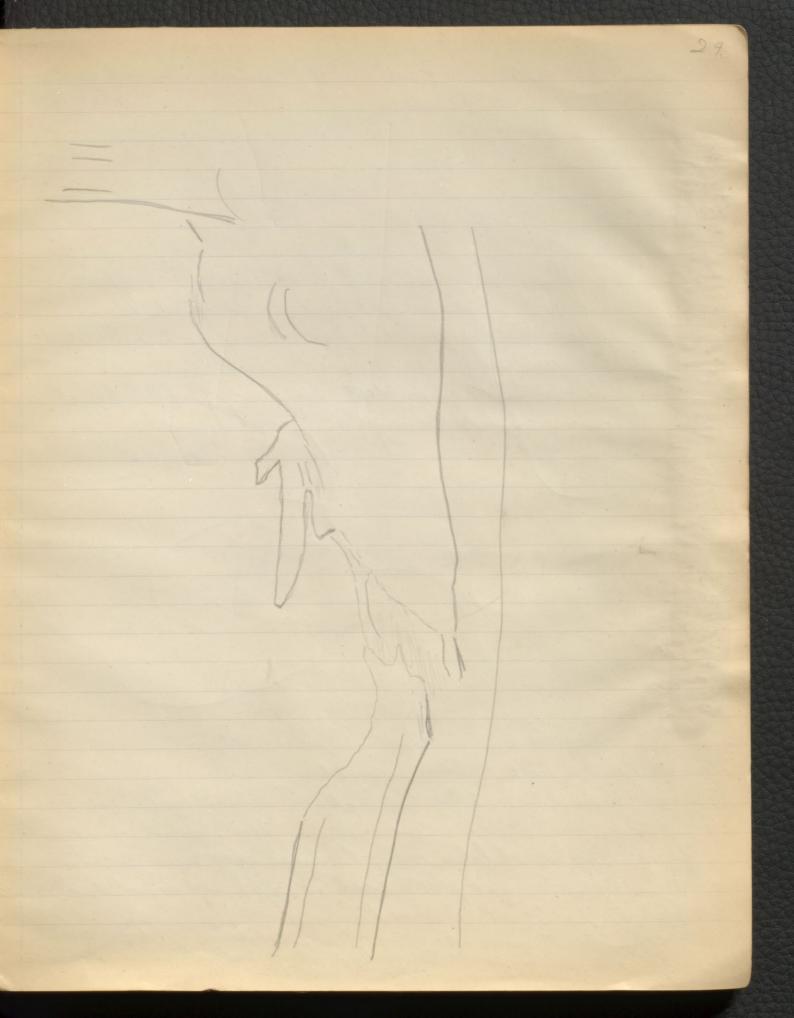


Carract May 10/9/7. Right Humanio. On Entrance \$13. removed. Reported bone fragments attached to vone - followed by week high Emperation gue, guly august - occasional exaccerbations of telesperatures no ilinion muscles becalie hard + nigit rated Aug. 29. Four requestre hand t engernaus next page. a admitted - X ray taken. Wound posters lateral laryo- open May 7. - debridement, esquillectory+ disinfection Sept 13. Incision of abscess positiving intermely. grussles were very hord+ injetraled Carrel tubes placed internelly and Canaut. - wound may 6. may 10.

Princelle were very hards injitualed carrel tules placed internable, and extended. The love frequents ofrow in knew 9103. could be just but were rolidly attached + hund left. Wounds freyhordens dropped. Wounds granulated over. Beginning

mr. S. Oun taken down - encolidation.

Sequestra (1, 2), (3), (4) were removed

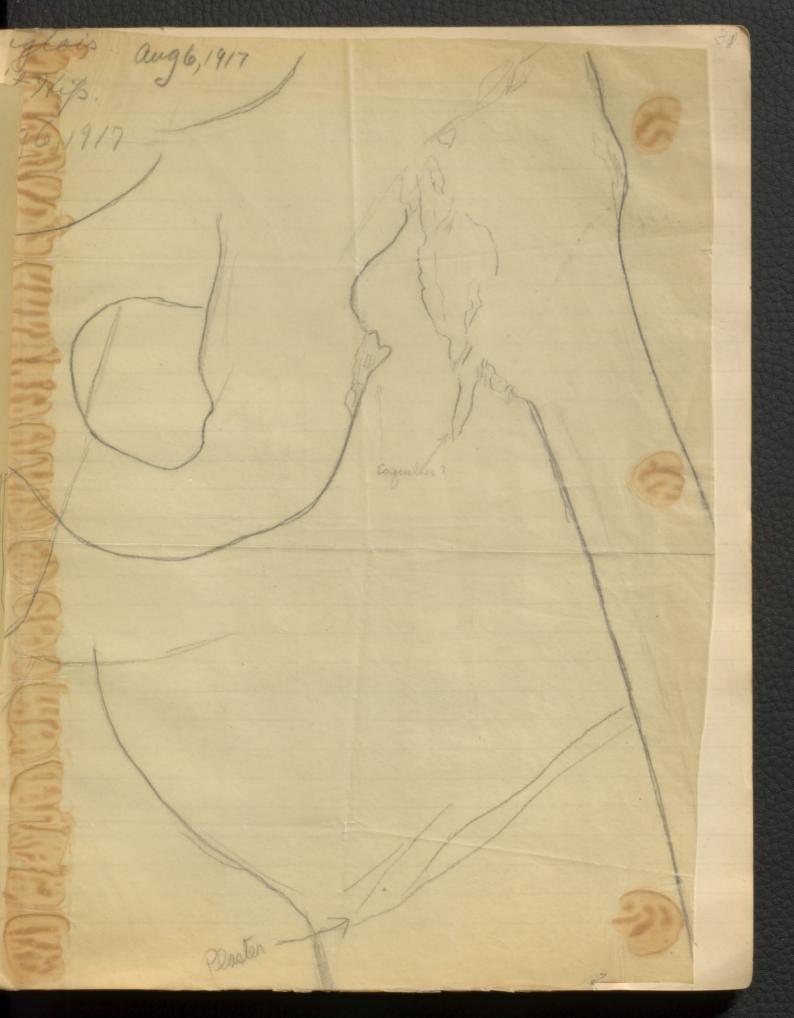


Langlois #90. - Fracture of L. minorimate for & head Huch relief occurred from Electing see p. X. Ilip was affect in July 1817 or down was a sold course began to be apparent. In early September Mound-March 2. 1916 - adm. May 28. Operations - 727/16 7. B. Extracted, 6/2 2/16. Resection of headof fermen followeddy suspension - extension, 1/1/16 apparatus giben up, no Duffurstion, no consolidation, /17/17 formation of new cecetabulung followed by Epduction in a plaster caste, 1/2 5/17- Ud sufected, draws inserted, 5/5-/17 Eclat removed Larma

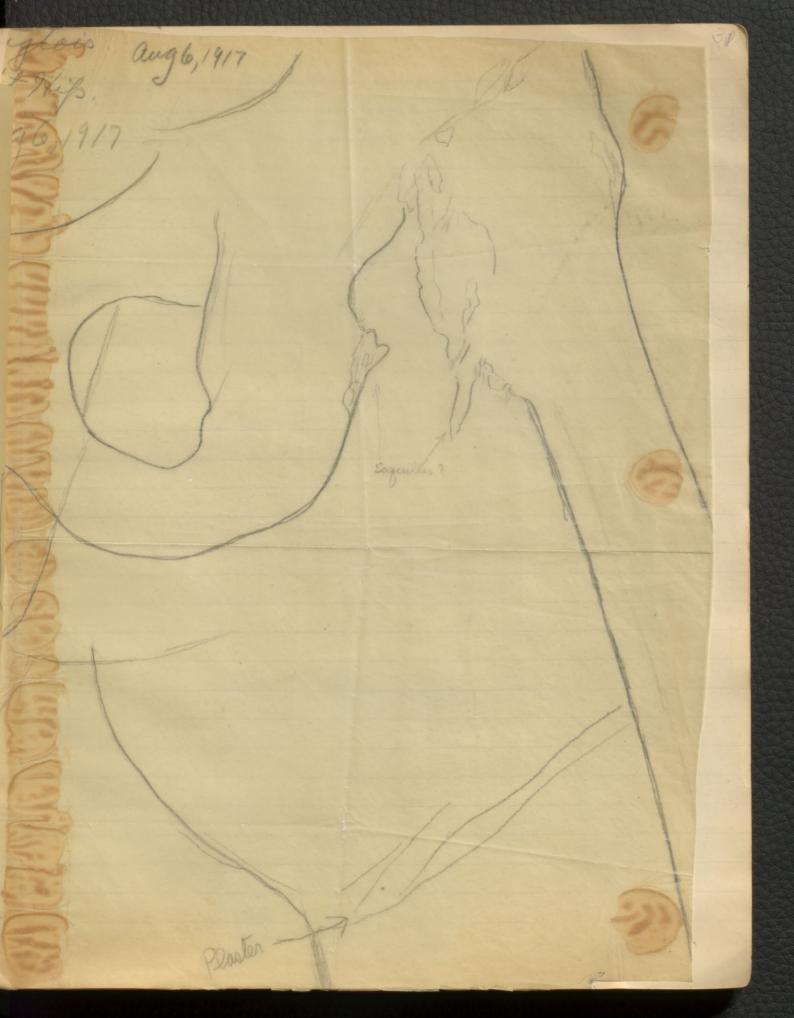
56/17 Plaster given up - very little consolidation 4/17- curllement

4 replacement in actabulum followed by plaster & abduction + external rotation

9-/17 coste removed - consolidation. Paten 19-/17 to using or utches little



Langlois #90. - Fracture of L. unominate fone & head of femur. much relief occurred from Elevating apparatus See p. 17. This was applied in July 18/17/ The pleis felt by patient previously when turned Hor doessings was avoided and consolidation be gan to be apparent. In early Seplember it was completed though a seines recuained. Mound-March 2. 1916 - adm. May 28. Geralions - 1/2/16 7. B. Extracted, 6/2 2/16. Resection of headof fermen followeddy suspension - extension, 1/1/16 apparatus given up; no followed by Obduction in a plaster cast, 1/2 5/17- Wid infected, drawing inserted, 5/5-/17 Eclat removed Larm 5/17 Plaster given up-very little consolidation 9/17-curllement + replacement in acitabelium followed by plaster & abduction + external rotation 9/17 caste removed-consolidation. Paten 19-/17/t. using mutches little



aug 29. aug 2 9 1917

Tufferey. Pa. admitted aug 20, 4914, wounded aug. 20, 1917 Diagnosis. - Diregular transverse fracture of lower & of L. radius + lelua, Seton wound I reatment. - Cotton glove glived to hand. Forearm suspended persendicularly from by strings rem chrough rings be the glove thinger Ends. Wound irregaled with Reelic + quilinice per Dakia Parrel libes. Same State following operation for arm extended as follows - (suspecture below. - Glove used to extend arm by means of rope over pully at foot of bed. Counterex tension by means of extension strips glue to to aut. + post aspect of forearm. Consolidation arm taken down Function of hand good though slightly stiff. Patient used to bend fuigers of extended hand with others. Hence no real stiffness. Discharged. See next page for result. See diag ram p. 10.

Sept. 26,1917 Tiffory. Respet.



Fig. 9. - Abduction extrême rurgical de l'humérus. Le cas de fracture du col rotation externe, dans un chi-

tions dû subir quelques modificacadre fixé à la tête du lit fracture spéciale. (Se pour le traitement de

rus », tiers supérieur. reporter au texte « Humé-

irale (fig. 5). Dans il est hon de non

nnequin également représentée sui du cubitus, muni des bandes desas blesse. La traction peut être soit par un gant collé. La contre-

tions, la

ment on En effet,

de suspendre l'ava tion verticale, soit e en un

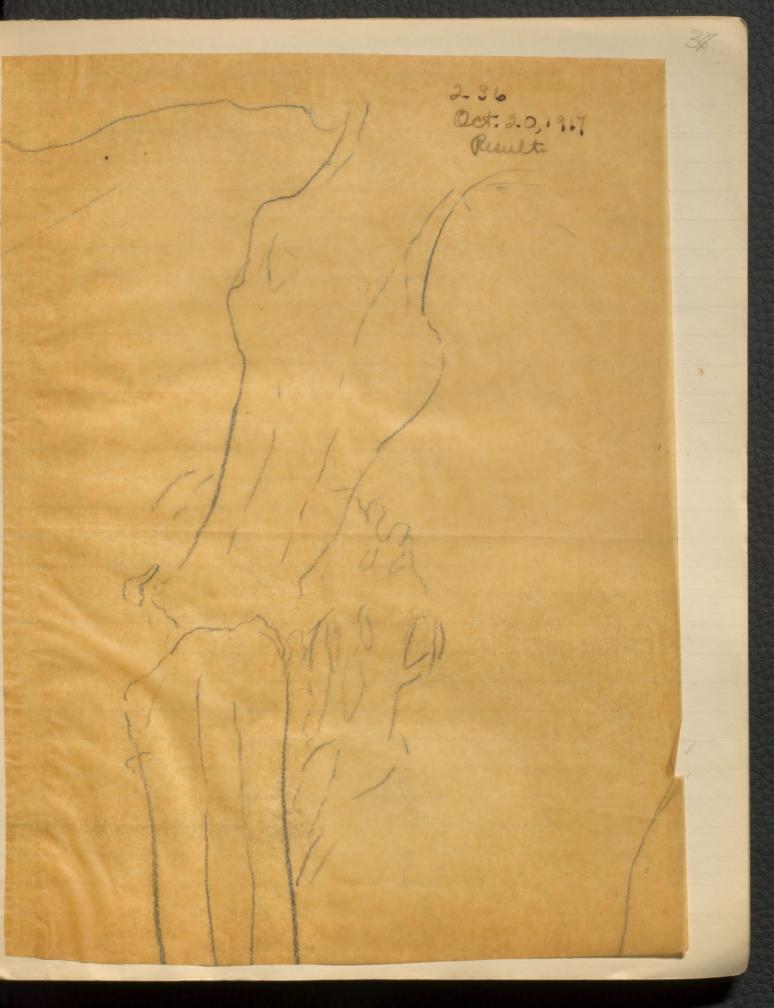
Aussitôt que l'ét soit à l'aide de ban

le permet, presque

nilisation



Fractured Fenner - Dill ho 236. 236 date? Steinmo Bug 27, 1917 Femus am frame on the the position o abduction a extension in way secure the result se on the ac calcs.



Fractured Fenner - Dit ho 236.

Steinman Pin passed through condyles of femus and extension made by a shrall frame on this pin. Ordinary strop extension had previously proved in sufficient to correct the position of the fragments.

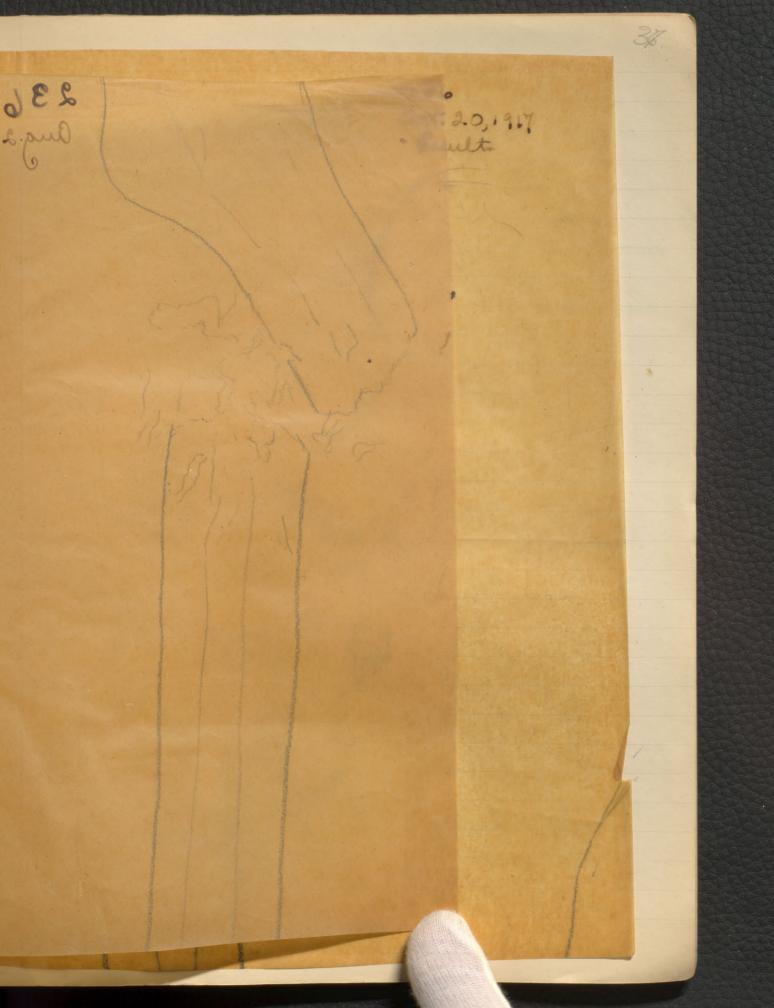
Obduction and extension in this way secured the result seen on the accompanying calcs.

-Stein manpin

Extension cond



dertension ferrain flom as Bloky list. 236



Les ounded My 23 163. June 28 holds. Suspended as befour Roger 20 with 14 lbs. extension and consider and added by aug 27. Eggiptedomy to Hound and winer Chroken W now I patient was en Blighment of Alga I dome all their a I donne letterne abdut. ton-fracture Fermer. 3 se resulto pp. +0++

163 gune 27 Roger Roger

Froctured femus - Roger DRI ho 163.

Wounded May 23.

Suspended as below June 20. with 14 lbs.

extension and considerable abduction

and 27. Esquilectomy performed and renion

broken.

Mov. 3 patient was walking with good function

alignment of thigh and some stiffness at

Bree joints.

abduction - Blake (Thomas) Splint. Extension & & pounds.



France providing for extreme abduction-fracture ferrur.



75 enux 8 d1 \ 163. June 20 \ 163. June 20 \ \ 100ger. 3 se republic pp. 70+ th

Roger. End Result
Sept 4. after Esquel-163 aug for further calco see ph. 41 etc.

Laboratories - Dr. Taylor - Generican Red Cross, 6 Rue Piccini Routine for Swabs from Wounds.

1. I was taken with heavy wire and coound & cotton from surface or aims of what place in tube plugged & cotton.

2. Direct surear made - grown.

3. Agar slaut made + swab placed in broth take - Both in cubated & hr. at 87°.

incubated & hr. at 87.

It same time as 3 parove. Boil thebe of milk and one of meat to for 1/2 hour to drive out the gas air. - atend of time cool suddenly to prevent air entrance. prevent air entrance.

- Transfer swab to meat carefully. Transfer swab to milk + Lucubate all four tubes 24 hours.
- 7. Examine milk tubes. Report stormy reaction to word as B.A.C.
- 8. Incubate for 24 hours longer.
- 9. Make Smears & platicum ring (1) Bouillon (2) meat (3) Slatet (as many as seems necessary for various colonies on slavet. (42++(3) on one slice making cercles E bleve pencis + passing from one to another without raising lease fr. slide.) [0000] (4) milk - (out ourears made from 5 different wilks on one slide.) Stoin & grown.

Roger. End Mu Sept 4. 163 Aug. 2. Esquille indic ated removed and mion broken aug 27. See ment calc for result. For further cales are ph. 41 etc.

n - Cuerican Red Cross 6 Rue Piccini Ologen egged è cotton. die broth tube - Both milk and one of meat to for end of time cool suddenly to all four tibes 24 hours. 14 reaction to word as BA.C. Clon (2.) meat (3) Slatet (as many as seems (\$217(3) on one slide making cercles without raising lease fr. slide.) from 5 different wilks on one slide.)

Sample Report on Routine Leval. I Book for data of swab.

408 (social) proof swab)

1126 (no of swat) (No. placed on tubor 8 in cheding writes at a constraint scach time owns comes from one a new rise is given)

Sevab: Blood, Pus - Rt. Wrist

Severa: Servous, few cello, Bacteria. Cocci, g-b (bacilli), g-rods spore bearing B. (bouillon) Meat [gas] small oval g-b, g-b, g+rodo Milk Bal. reaction - sureas >Bac. Stapligle albus + aureus (tell by looks of st. and microscope) Sl. II. Permanent Record Book. Date-Rotolon W. - Serial No. - Floor - Ward-Bed-Name - Specience for Deagnosis Results + Remarks.
27/19/7 1126 - 469 - P. - 28 - 3 - Bigeon Swood-Rt. wint - acrobes: Staph, g-tax box Quaerobes: BAR. Celture Media. Mest - Leave beef - grind up, mash in mortar, weigh + add equal wgt. of Ho o - place in tubes, add & as much again of peptone water (water, peptons BAC reaction gives - Bubbles, pink color + odor of rancid butter. 2. Milk - (with the cream) tubed + sterilized indutoclave ordinaryasan slant.
3. Plant - agar slant. melt up some blood agar & pour over 2/2 agar. +2 of o peptous 7. Boudlon.

For the Isolation of anaerobes.

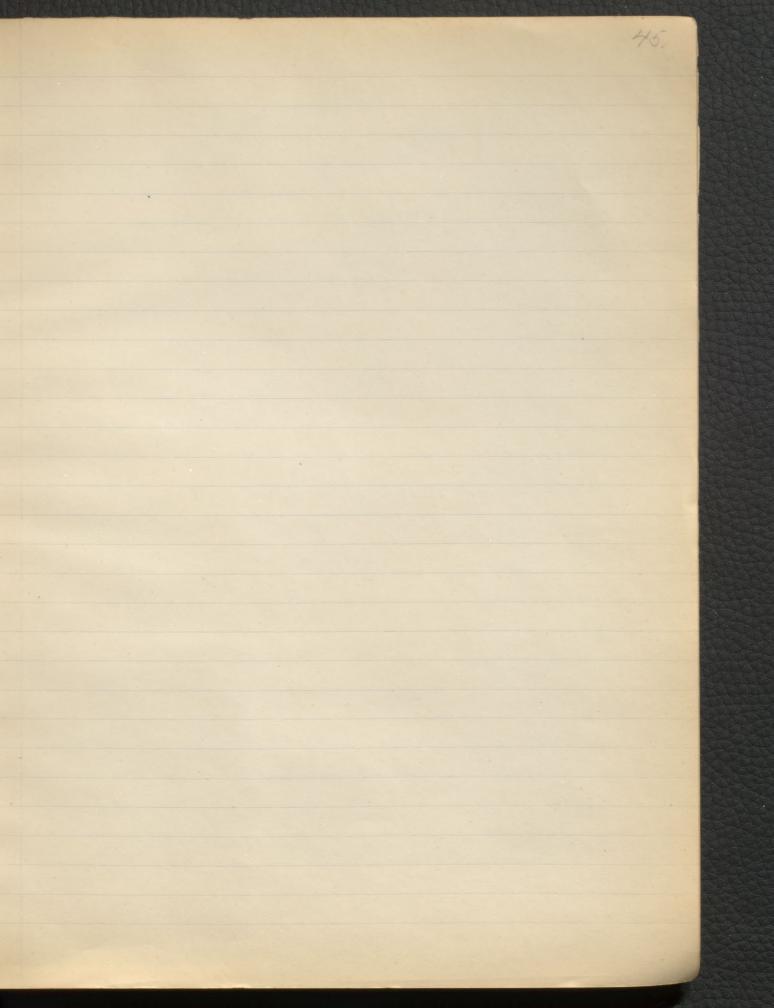
get auserobes m loop from meat culture

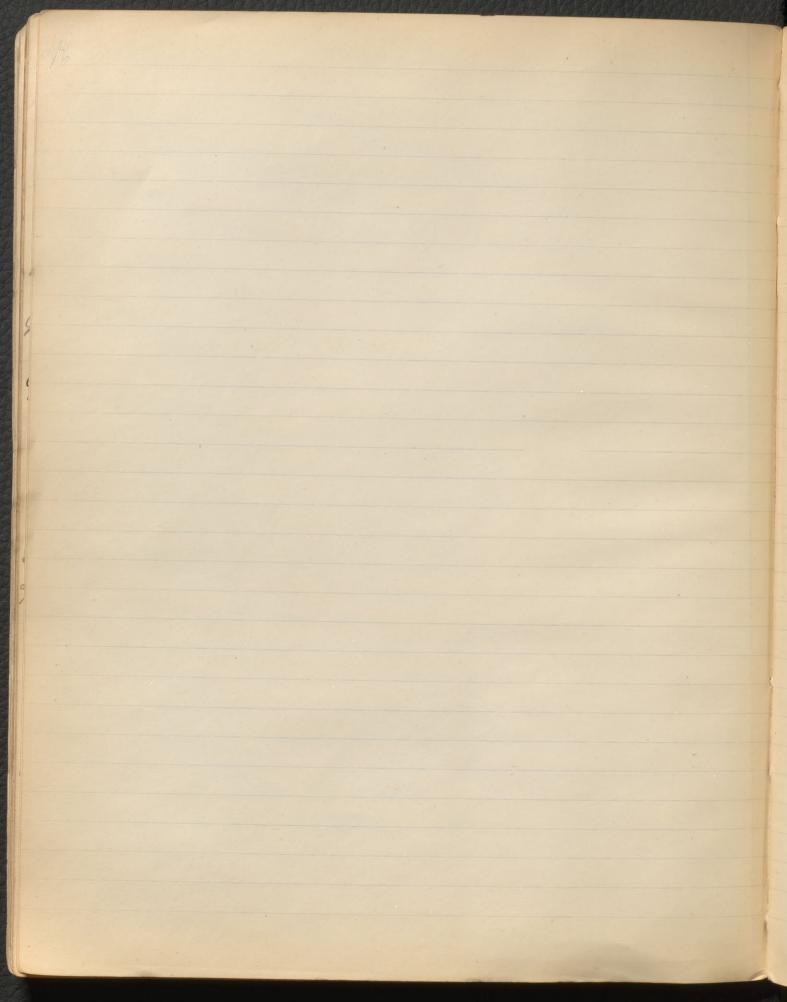
(Veillon agar used-Pasteur Institute- Formula
1 of peptone
0.8 of gelose (agar.) percentage of the total volume made
0.5 of glucoce
0.1 of KNO2.

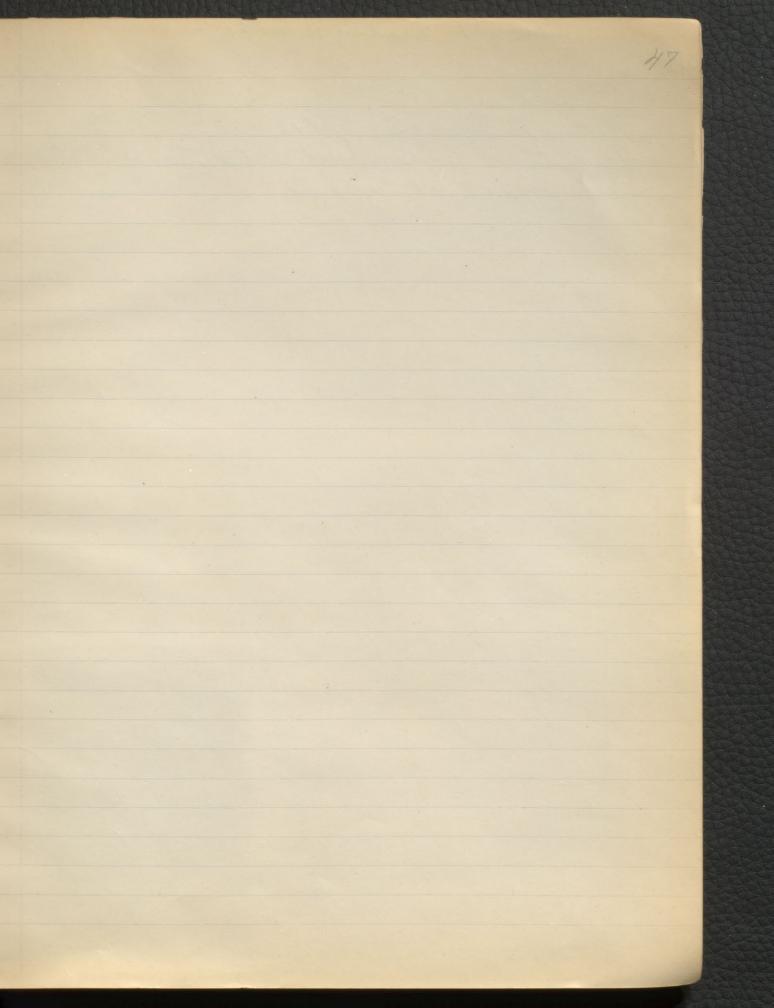
Heat 3 agar tubes till metted. With platinum book toop pass from first to second to third tube. Incubate. Choose a tube I be where colony may be isolated, cut around tube ē a file. Offly hot bit of glass to cert, their cracking a selow the agar to fall into a sterils petric dish. Pass Pasteur pipette draw isolated colong into it + wich brow r inoculate anaerobic meat + will + examine.

B.A.C. reaction-Bubbles in meat. + Stormy reaction in milk. At the end of 24 hours the stormy reaction may appear. If so report B.A.C. to ward. Waiting 48 hours often brings ont one not appearing in 24 hours.

Zi Dai 27/19/1 2.7.



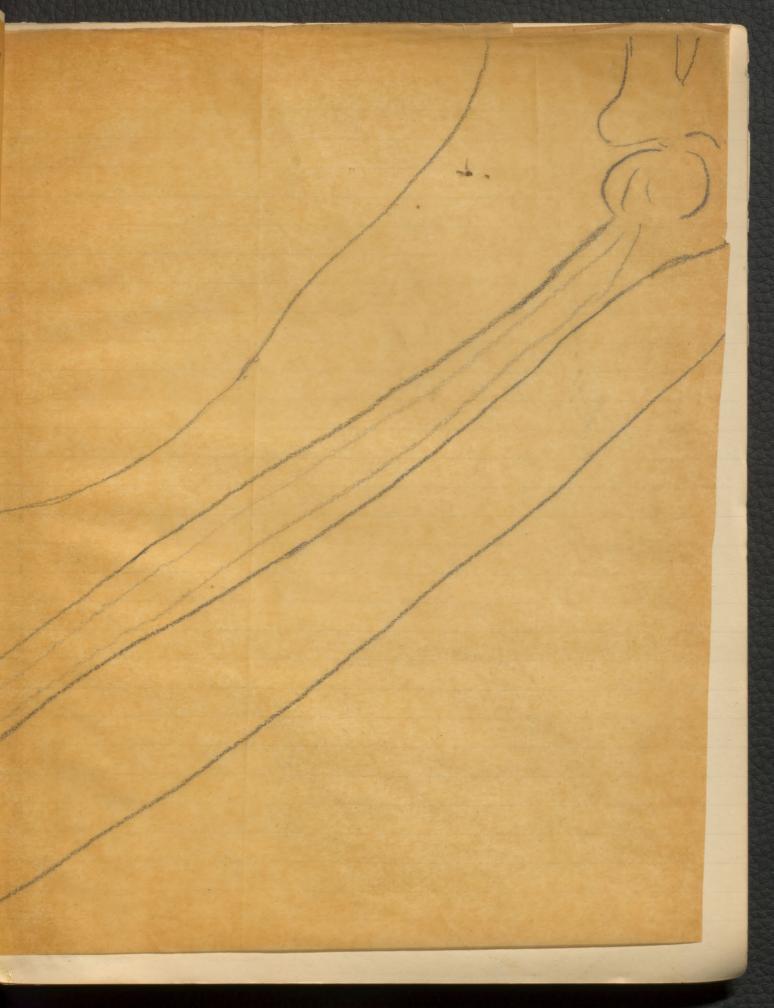




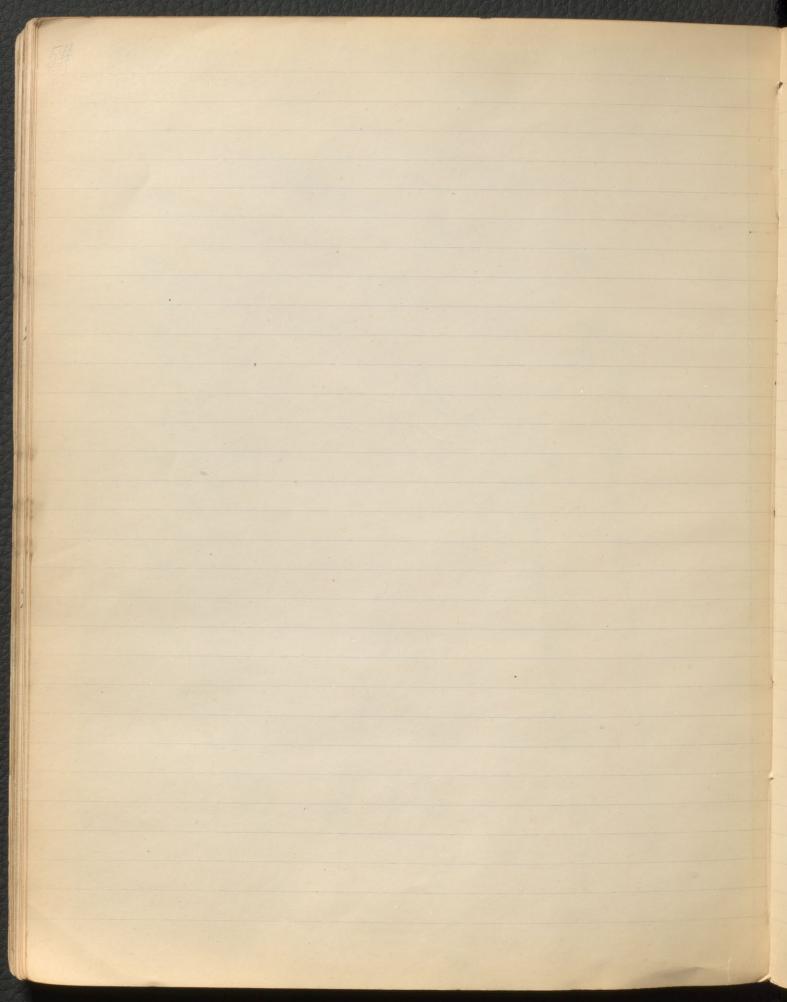
Raymond-307- Fracture of Head of Hermenus Come 307 admission Party Caymond stees lett 177 Trul land down about Out Bes Oslong + 8, 49, 50, 51, 52.

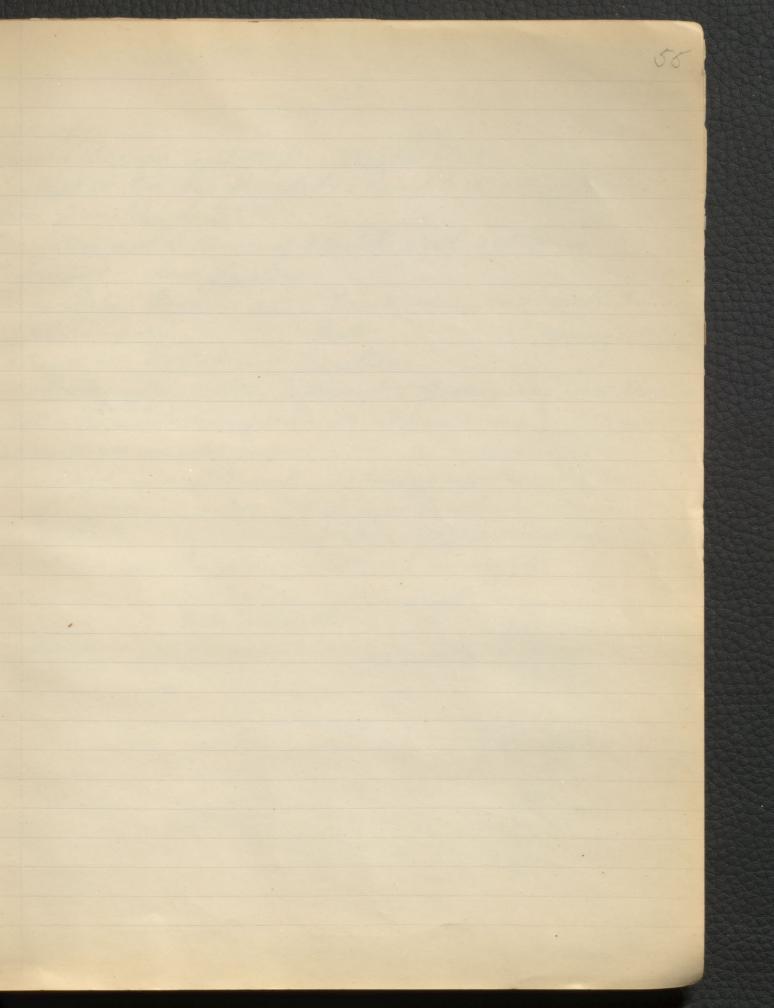
Raymond-357- Fracture of Head of Hermenus Wounded aug 25. Put up in Exparatus Sept 11. arun taken down about Oct 25 consolidated See Oelcs p. 48, 49, 50, 51, 52.

387 admission



307 Oct 23 1917 Roymond. End Result.

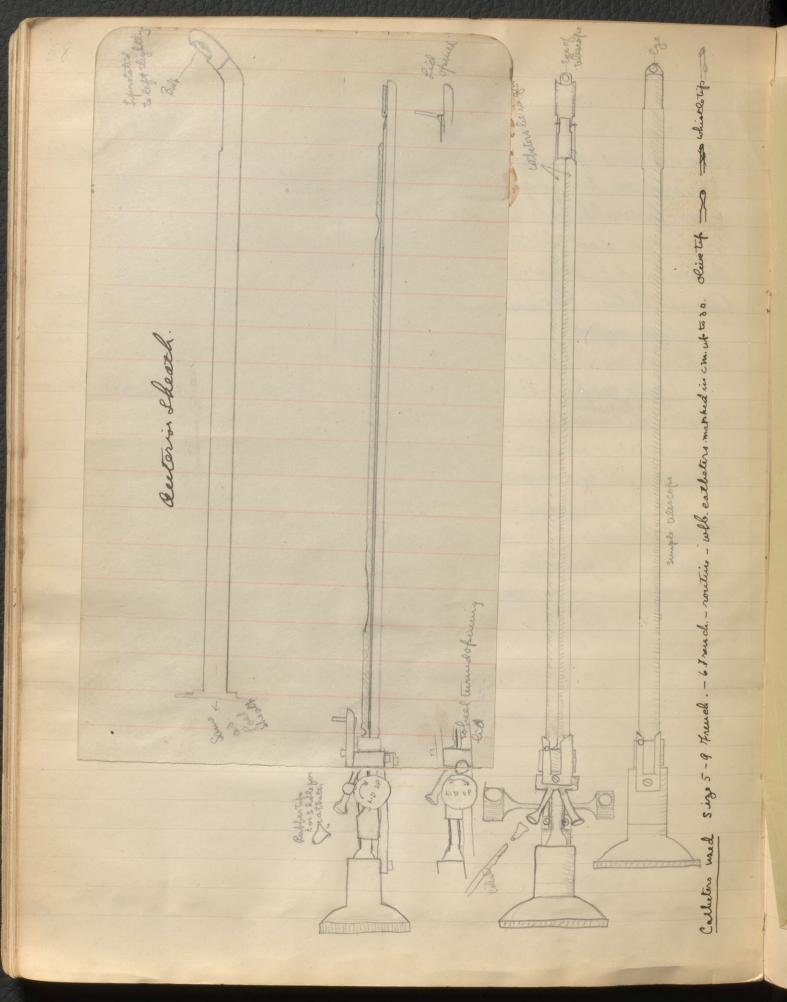




Frank Color

Peter Bent Brigham Hospital # 1918-1915 7 Cystoscopy. Baown-Buerger cystoscope - Wappler Electric Co. Juc. - May York. Sterilezed en tin box provided ea lamp to distilt of fumes from formaldeligde tablet. Drigation and distension of bladder with 2 of Boric. Lebruaut - dear glycerine. Quaesthelic - Cocaine 50/0 - Female -administered & tooth pick swab. Patient in lithotomy position. " syringe milked Pyelo graphy - Catheters in place - pt. to operating Knay room. Thorium Ritroto 15 of nacised to run in from burretto - ad pain (8-1200) Small tip on burrette tube corrugated + fine point To x ray bladder 10 for Thorne nitrale If desired to fill hydro nephotic cavity - use hand segringe at second X ray. after Catheterizing wreters - get openinens for reducent. Then de a Phenol Alholein - 1cc. introvenously hote time of appearance of color (hart in tubes Run 15' after color appears in first Frick nuch water. Posterios Sheath.

Franch 25 in diswells 5 Subeto virigato E doric



Newyork organ meter started at . 8 Lines pro ins + moved agfilled no meter standed at 6. I any Os after breath in two start 6 me leters no trupposed to deliver any more is end Cores howing had previous thes. Start I foundrops of essence of hells or gange Ether come . Dans come - 12? Andrewses of gange som it and whole covered à duck cover 3 situal hale 2-3 am in deauring Connell Ether Machine an eller on It ranging pressures anaithetize well said machine at 16 mm Hg. pr of other and increase La 90 rapidly. Flue Lower-recovering at 30-46 mm Brokete wilden march time - leading gette men to



Connell gas + Oxygen Machine made by Scientific apparatus Co. Mewyork Oxy gen meter started at . 8 Little per mins + moved up to 1. or 1.4 (or higher) no meter started at 6. (Bag filled 5 any Ox after breath or two start O2.) Lucrease of no above 6 resleters no trupposed to deliver any more gas. Nasal tubes & safety pin in end 14.5 cm. in length. Coses having had previous ether Start of few drops of essence of bitter or gauge Ether cone. Wire cone. 12? thicknesses of gauze over it and whole covered a duck Cover & small hole 2-3 cm in descriter. Cornell Ether Machine gives ether à air at varying pressures. Quaesthetige well. Start machine at 16 mm. Hg. pr. of ether and increase to 90 rapidly. Then down-reuning at 30 - 45 mm Catherter used for nosal tube. - Used for goutre cases etc. Mark on catheter 14.5 cm.

Spinal Quaes thesia. novocaine Colaine Gin. 0.150 dissolver in 3 cc. water in test tube. Boil down to 200. Then inject in 4th & interspace, draw out cer. sp. fluid + reinject. Tip man head down to carry cocame up. Druation Is her to 2 hr. Leg amputated perfectly. g. U. Dept. ODD. - Lom C. Gerinby. Routine Politions. 1-5000 ag no3, 1-1000 agnos - Sterile H20 -> Varying strongthes 1-1000 Pot. Permanganate - Blodder irrigation. 2 Lity 10/0 Sol. of Lysol - disinfect cystos copes. Formaldeligde 1- alcohol 250 (70 010) & - cleaning up patient Boric acid 2 of - irrigation & cystos copie (Instill? ce into Boric acid 2010 - irrigation & cystos cope. agnos 100/ Pelvic wash pegelites 10/0 usual. ag no 3 4 do , 5 sto - pelvic wash na OH. 10 s/o - reaction in Pleased Path test. Fioric 3. Water 500]. HAS come.? alcohol 7 s of o + denature & alcohol lampunder formalin exercises. Montral Formalin ; Bucker ? Detic acid flocial ? Orgyrol 10 of t 25% wethra, Bladder washes. Protargol. 5 of o - female wrettera in gonombea, also male. Ludigo Carmine 0.5, Nacl 0.6, water 100? Chromo wethros copy. 15 iv. worth Lot. Hyposelflite 1.7, water 100? Tweeture Lodine - Paint Cervix + Vogina - gonovilea Copper Sulphote 250/07 chancroid eauterization - reference G. U. diseases am. A. 1117 Formalin pastiles. - vaporized to sterilize the web extraters. Or bichloride may be used for weteriles these

Todoform 19m. quaical 5.gm. Olive oil 100.-soothing+ autiseptic In-Sulphote gue D. 2, Lig. Pb. Lubacetate dil 100 N - astrigut Luj-for Corrosive Sublimate >1-160 (40 cc dil to 2500 =1-1000) I cthegol 10 of air glycerine - toxefor in Jon. + Salpengites Sterile Flosias Cocaine 50/0-, 2+ & wrethra cystos copy " " Petrolatum " tinstrumentation Soda Becarb, Soda Borate à à 37, water 3 VI- Swab muçous off as cavix I Litnus paper. Muko (tabes) L. F. Chapin Co. Boston Mass. Leubricant to glove finger + Sounds Table men's room. Bowl-Bickloud, E tips to serethrof syring + Kollmans covers. "Metal serethrol seguinge. Bylass plunger syringer for cocaine in mole wrether etc. Bull wretheral syrings Dowdered gloves, nucho medicine flashs. Sponge sticks in alcohol. dry sponges "Ole. aponges. " Took pickers swall gly cerive +, petrolouine, 500 cc flask for Bladder wook fluid. (19 Kollman. Boseins (18) write flootsglasses. also . - towels + hole lowels. Sterilization. Calleters in formalier aporbox as bouges Lounds - boiled. Cystoscople - cleaned & soap & water. Placed in 100 Lysol before using + transferred to sterile Hnd. (In house, sterilized & formalin rapor) Ureteral cotheters - in formalin or bechlouide (Cystoscopes - all Brown-Berger mode by Wappler ie aut. Post shealth + wrether scopes. On operating Scope fits either aux. or pos. sheath. Broosh Scope allright for direct tision.

Followers for filiforms) cleaved in soaf

+ water + wiped & alcohol sponge before
use. Filiforms sterilized stame as cachetersel.

Light for cystoscope- 4ever ready batteries in

a wooden box. Or a stepdown on direct current.

Kollman covers boiled each time.

Dear senol Bas phen amine. - P.B. B. lerological BDD.

Spharatus. (1) glass stoppered bottle-grodested in 25°cc. E file.

Sterilize with stopper off & rorapped in gouze. BJ long solidfoss addring rod for freehing up a last program of arphensum if necessary.

(3) 1cc (or 5c.) pipette for dropping in Nach. (24) Long high pressure reubber testing with a three way stop cock. (5) Rubber stopper with I lubes attached to fit fottle. (6) Bassenian needle to fit connector on tube. If Sterile salt solution at blood leeup. distilled twice distilled over glass. (8) No off. Chemically pure. 15°0/0 (or 200/s) Diar senol Briphenamine made by

Syringe method

Suringe method

Intercution. Procedure. Dosage - first teine 0. I gm. or 0. 4 gm. according to size. Next time boost to 6 gm. F. File diarsend unpoule & breakoff top. - Powder in bottlet add at least 25 ec. valine (T) for each po gru lear senot. (Do not have it too hot nor too cold) Stopper wick gloss stopper and shake till dissolved. add drop by drop the Ha OH (8) until clear (mutro) Make left enough for the does treat ment at one tienes jeist the redu ocet from bottle the dosage desired. Patient recuembent, clean uparm c sterile towelunder. Labe & teebeing syringe et all sterile. Serut up. Quesert needle in tubing holder & insert in vein with 3 way tap connecting syrings with needle and saline in servings. Determine that you are in vein by drawing ou syringe & reinjecting without without producing bendoma. Then, in gravity method allow decirsenol to flow in. Or by signing method draw out by turning top + inject a syrlige. Luberculin. Dosage.

allright for direct tision.

Followers for filiforms) cleaved in soaf

+ water + wiped & alcohol sponge before
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Copparatus. (1) glass stoppered bottle. - groduated in 25 cc. E file.

Sterilize with stopper off y wropped in gauge. D. Long solidlass

Thring rod for freehing up a lost fragment of explusionine if necessary.

(3) Ice (or sc.) pipette for dropping in Nacht. (2) Long high pressure

rechter tuting with a three way stop cock. (3) Rubber stopper

with this attached to fil fattle. (6) Wassenman needle to fet

connector on tube. I storile salt solution at blood leup. distilled

twice distilled over glass. (4) No.OH. Chemically pure. 15 ofo

(or 200/b) Diar senol Besphenamine make by

Syringe method

3004344

Procedure. Dosage - first teine 0.2 gm. or 0.4 gm. according to size next time boost to 6 gm. F. File diarsenol unpoule & breakoff top. - Powder in bottlet add at least 25 ec. valine (T.) for each po gru lear senot (Do not have it too hot nor too cold) Stopper wick gloss stopper and sloke till dissolved. add drop by drop the Ha OH (8) weited clear (mentrag) Make up enough for the does treat ment at one tienes just or redu ocet from bottle the dosage desired. Patient recuebent, clean uparm c sterile towel under. Labe & teebeing syringe et all sterile. Serut up. Jusert needle in tubing holder & wesert in vein with 3 way top connecting Ryringe with needle and saline in servings. Determine that you are in vein by drawing ou syringe & reinjecting without without producing hundoma, Then, in growity method allow decirserol to flow in. Or by syringe method draw out by turning top + inject o segringe.

Luberculin. Dosago.

DOSAGE OF OLD TUBERCULIN

METHOD OF INCREASE.

#6 - 0.1 cc of #5 plus	0.9 cc of H ₂ 0 0.1 c	c = 0.0000001 cc. 0.T.	1 - 0.1 cc 2 - 0.1 cc 3 - 0.2 cc 4 - 0.2 cc
#5 - 0.1 cc of #4 "	0.9 cc of " 0.1 c	c = 0.000001 cc. 0.T.	5 - 0.1 cc 6 - 0.2 cc 7 - 0.2 cc 8 - 0.5 cc
#4 - 0.1 cc of #3 "	0.9 cc of " 0.1 c	ec = 0.00001 ec. O.T.	9 - 0.5 cc 10 - 0.1 cc 11 - 0.2 cc 12 - 0.2 cc
#3 - 0.1 cc of #2 "	0.9 cc of " 0.1 c	se = 0.0001 cc. 0.T.	13 - 0.5 cc 14 - 0.5 cc 15 - 0.1 cc 16 - 0.2 cc
#2 - 0.1 cc of #1 "	0.9 cc of # 0.1	cc = 0.001 cc. 0.T.	17 - 0.5 cc 18 - 0.5 cc 19 - 0.1 cc 20 - 0.2 cc 21 - 0.5 cc
#1 - 0.1 cc of o.T. "	0.9 cc of " 0.1	cc = 0.01 cc. 0.T.	22 - 0.5 cc 23 - 0.1 cc 24 - 0.2 cc 25 - 0.5 cc 26 - 0.5 cc

TREATMENT FOR BICHLORIDE POISONING. (As worked out at St. Luke's Hospital, New York.)

1- Copious stomach lavage with water or induced copious vomiting. After washing out stomach leave 250 c.c. of milk and 100 c.c. of 50% albumen water (white of egg).

2- Stomach wash every 3 hours first day same as no. 1. Afterwards twice daily until urine is free from mercury.

3- Every alternate hour give 8 oz. of alkaline solution, viz., potassium bitartrate sugar aa 3 i lactose lemon juice aa 3 i boiled water ad 3 xvi

4-Every alternate hour 8 oz. of milk.

5-Murphy drip of the following solution: potassium acetate, one drachm to 1 pint of water.

6-High colon irrigation twice daily.

7-Daily sweat in hot pack or by other means.

Urine is secreted from above treatment in large amount. Treatment is to be continued until urine shows negative tests for mercury on 2 successive days.

Instruction for Acute Urethritis Cases.

Cleanliness.

Wash the end of the penis at least twice a day with warm water and soap,

retracting foreskin, etc.

Immersion of penis in glass of hot water t.i.d. is good. Urination with penis immersed in hot water is advised.

Care to clean hands after urination, injection or handling.

Do not use common bath tube.

Care not to leave discharge on toilet seat.

Discharge.

Gauze bandage about penis held in place by foreskin if present. Gauze bag if no foreskin.

Rest.

Get as much sleep as possible. Reduce physical exercises. Riding instead of walking. No dancing, bowling or exertive sports. Sexual rest. Absolutely no intercourse. Prevent erections if occurring, (cold bath before retiring or NaBr. gr. 30). Suspensory or Jock strap in the acute stage.

Food.

Absolutely no alcohol or soda fountain drinks.

Spices are forbidden.

Coffee and tea in moderation.

Increased flow by drinking much water in acute cases.

Moderate water intake in posterior cases as frequency of urination may cause urethral irritation to persist.

Bowels.

At least one movement a day is necessary.

Internal medication -

Rx. "Compound Salol"

Salol gr. iiiss or .2 gm.
Copaiba mins. X 1. cc.
Oleoresin cubeb. " V ,5 cc.
Pepsin (1-3000) gr. 1 .06

Mix and make capsules.

Sig. One after each meal t.i.d. with full glass of water.

or

Rx.

Salol	gr.	I₹	•2
Oleoresin sant.	min.	V	.5
" cubeb.	11	V	.5
Olive oil	11	V	.5
Pepsin (1-3000)	gr.	1	.06

Adminster same as above.

Ol. Sautali gru. 0.5 T.I.D. P.C.

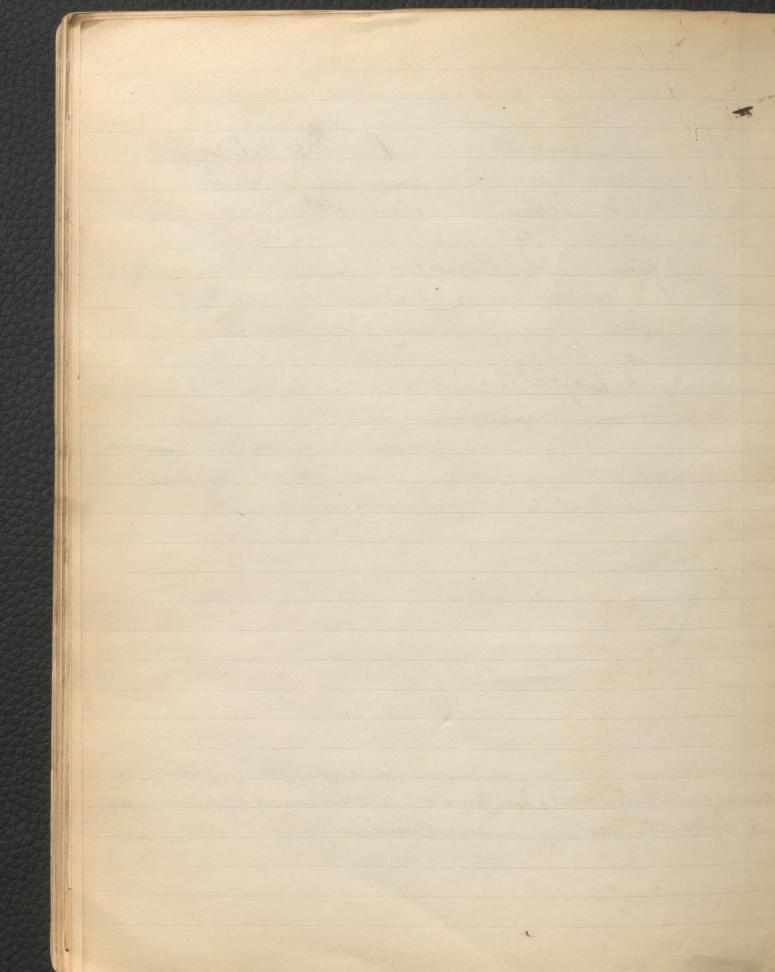
1 Ur ti

amalwood oil or Wintergreen oil mins. 10 as above. If the above mset the stomach. tearosan in 10 min. capsules t.i.d. ive the above (unless distressing) from the time the patient comes mtil the urine is clear of pus (not shreds). or irritability at bladder neck and dysuria -8 to 25 gr. Liquor potassae 15 to 35 gr. Tinc. Hyoscyamus Aquae cinnamomi q.s. ad. 100 gr. Teasp. in water q 3 hours. give Dexamethylen omine gm. 0.3 T.I.D. P.C. in Have with Booid Sodium Phosphoto Ju. 0.3 7.1.) PC. " I there are signs of bladder infection. nen. - gonorrhea. cervix if indicated with 100% agle, ou swabor testinature of eodine. Vagina with tinct of iodin with finger, if there is pus either sevas or instil protogol into verethra. Force fluids, rest etc. alycerice are or glyceries ealthyof tompon + remove hours. - Douche B.D. Peelvis Menthol Compositus.

quart of H2 U.

alcohol 70 % 250 Operations P.B. B. Hospital. Formally a 1/ Oppendice clony. Bediloride for honds + field 1-5000 Cleaning cept method-for all operations. Is have + washin P.M. 11 a towel above + below area over doller. III alcohol, taken in bare houds I sets. IV. Bickloude 1-5000 sponges 2 sets. V. Lap sheet (oblong opaning) Vi. Lowels fostered & towel clips. VII Souble sheet below + above + one over feet. Pist asit has previously scrubbed 5 min. then alcohol + Becklouide 1-5000 5 min.) alc. + Bielelovido agreciota houds, gloves in water, gown. (or gloves in Buchloude Jucesion. (R. reetus) over middle of R. rectees from beginning a mynikan few cur below level of level icus, about & cur. inlength, rectees damps muscle reflected medially, take care to only push nerves up ordorn. Peritoneeun with forceps first then keinfa Kelleys on peritoneum. Hollow appendix oct of revound. # I duronic cat gut to tie resselve in append. mesentery, appendix crushed at base and with kelley clamp which as their moved cel a lettle and classified. Plain got gut # 1 about Oppendix in caush live teed. Use tie to steady, Countery between classifi and tie. Vair of Halstead straight clamps on base of appendix + tiethe Cut. Stemp but tie. Towert steenp a Holsteads+ if necessary muc. memb. (alice) classeps on carcum near. Tie peirse string after lu version. Jusert + tie another purse string or a mottres stick to further envert. Mesentery over sete. Close paritoneum With #1 double plain catgut continuous Dr. Jacobson) or with #1 sligte conteir wow chronic (Dr. Cheever) Same stitch may be used to draw rectus back in place after dosing peritoneum. #2 interrupted Chronic cat gut for foscia. Mattress stitch. Like A is overlapped ow over side B. Stecch I is taken alway from operator and 2 loward hein. Fat-fat fascia approximated by # O plain cat quet. I bein weisian by belk on plain Draight needles Bichlorido sponge toskilu, Silver foil over in cision. ganget adhesive

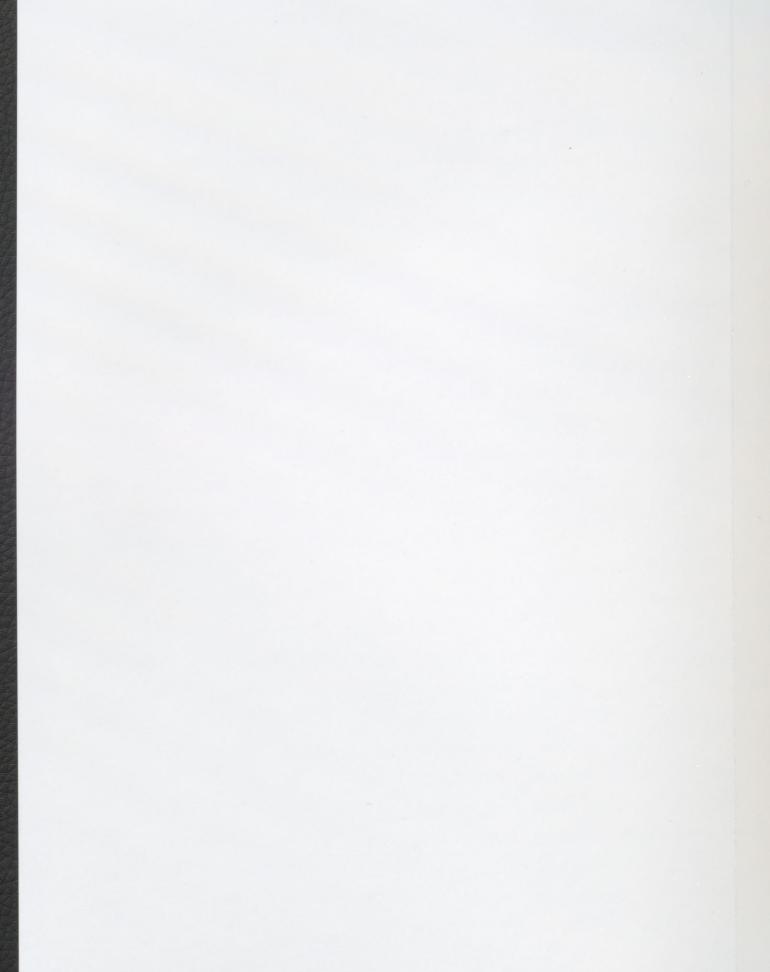
Pyclotomy for Stone. Todrice + alcohol Prep. - Pt. on side a saud bag under side and table troken. Gas+Oxygen. Hank in cision - From gast below 12 th rift out to Lat Dorse downword + forward. Expose Ext. oblique + aplit fibres then out across them in live of incession + retract. Cut internal obliques Incise the Capacileover renal fat. cave-personeum. That the fat & handle as little as fossible. manually shell out sidney. Take care not to strip of kidney capsulo. Seliver Kidney. Lucise pelvis posteriorly & scrap out stone ? guel bladder scoop. Secoup pelvis it replace fat & statal. By develing bedrey of sapsule a lettle it is aft to fix Aself tiposition oyal resions. Leave Saline hot in fassa. If more space is needed the costs vertebraffascia may be removed. Cut. Cut muscle closed in layers & wetersupted chronic selleres. Plain cat gut to fat and silk to skin. Inaision in Ext-oblique Thougabuful His hypogastrie nephrectony - Steps similar to abour except that kidney predicte is classified a right augled classes In difficulty use big kidney classes



Shoulder aushing to cornected by to suring to corner against chest Face Eushin mouth may be reached by anaesthelist xe anaesthetist under kheets. 4 wet Towels prined around face and resurface nel introduced into Toach come + Come llone at bottom. after pt. sleeps the tube is introduced into the nose. Blood pressure tog and set herscope disc be Cerebellar Operation. bound to Rt. arm. well. Preparation. - Backof head aboved by orderly long tubes to anauther Cushing - bichloride towel over bais. alcohol spronges to field. Ducision outlined by built Beckloride sponges. One layer of g wet gauge over field. Speet puned to head so it falls over the wire above y covers anaesthetist. Dichloride towels to o broulder. L'obsfed table over oboulder of gray sheet over that and all of head except field. garge out alon lives of encesion cheady out lived In cision deepened to Suraps put on deep layers of Ocalfy turned out to cause hemostasis. Suraps held in rows by a sponge thatfolded Wove indicated incision deepened to okull & perios term

Instruments. Snops E silver clips. Small cotton swabs gressed out in salice. Bone wax -Periosteal Cevator, joker or spud. Rougeurs Perp. out must bejiest in mid live continuing down to atlas as it has to be removed at times. Bone Beeding stopped & lone way put mi fuger & jokes Bone exposed down to canal. With electric motor and round bit to me hole med on litres side of acc. protuber auce. Enlarged by hand brace + bit, beginning in hales bone better out by Zongens of various shafes 000 Large bone fixed bone claubs used also. to sped via ____ ? by needle which is left in place. Derra lifted by tiny hook. small hole & scalpel Groot derector deserted + cut made on it. Dura reflected Spoon spotula under dura » further out made & scersors Bleedern lura stopped & selver slips. L. lat. erebellar lobe efted a spalula for in exection. Success out in L. cerebella lobe and a blust trocker in trocured into cerebelling. Small and of Suid from probable cept. Too deep for removal.

Janglion. Cushing (howa High BS?) on side high table e app. other. Robert Rosen bloom. Serg. no. 10,036 fouge had been reshine- elec + hours at 7-8 - severe frontal head aches. 18 months ago. blurring R. eye. followed by bludues here 1 yr. ago bluring of L. eye + Decompression in n.y. Lut. strabissmus of R. eye as long as he can remember. rgeal is rought Pos. Findings. sped or bone way Subj - Complete loss vision in R. eye. Impairment of vision . nuch use of tollon L. hensianopsia. Fundus co. optic atroply - ol. eduna clises? to wax dest R. Sux. Strabismus of R. eye. et c ating were Hearing st. better on L'side. ig from gauglion Plightly under size. no dystrophico adiposa gentalia. anexposed. A + over the Of. Transfrontal approach to Petritary. Horse shoe in cision above L. R. orbit. worth forceps Surrounding the chiasus + raches more to right was a large tumor color of mother of , te evelsed: woved. pearl & shelling out like wet saw dust. lessen the flow a choleste ona, the second Cushing hassen. it bessenthe When scooped out a peticitary spoon one could 'ed as hemosee chiasm and eircle of willis! good before closure etherrecovery. Da. Cushing had refused once to operate pla previous nuscle edges admission. is pasked edges wity files E Spalula Brain



Robert Rosen bloom. Sorg. no. 10,036 at 7-8 - severe frontal headaches. 18 months ago. bleering R. eye. followed by blindress here 14r. ago blurring of L. eye + Decompression in h.y. Lut. strabissmus of R. eye as long as he can rewember. Pos. Findings. Subj . - Complete loss vision in R. eys. Dupais ment of vision L. L. hensi auspsia. Fundus co. optic atroply. - sl. eduna clisics? R. Sux. strasissmus of R. eye. Hearing St. better on L. side. Slightly under size. No Systrophico adiposagentation. Of. Transfrontal approach to Pituitary. Horse shoe in cision above to R. orbit. Surrounding the chiasus + raches more to right was a large tumor color of mother of pearl & shelling out like wet saw dust. a cholesterma, the second Cushing hassen. When scooped out a peteritary spoon one could see chiasm and eircle of Willis! good etherrecovery. Da. Cushing had refused once to operates a previous admission.

Robert Rosen Cloom. Sarg. 20, 1903 C 8 severe frontal headacher. acted ago. bluring Reys. followed by bluideurs here
go bluring of Ley + Decomprossion in n.y.
Frakies runs of R. eye as long as he can remember. induigs. by - Complete Cocorision in R. eys , Surpainment of orsion t. usi anopsia. aptic atropy - ol. eluna chois? x. Strobusmus of Regs. a D. better on Lide. they wurden sigs. No Systrophia adeposa gentation. transfront of proved to Patent any. re shor in cision above to A. orbit. ounding the chiasen + raches more to know a large tuner color of mother of of shelling out like wet new dust. obesterma, the second Geoling Lassen. scooped out & putuiting spoon one could wirm and wiellof willis! Good recovery. Cushing had refused ones to operatest a previous mission.

years ago slow on head-followed by severe headaches in attacks. Enternal strabissmus of L. sye & yrsago, + L. hemisispeig of Leye-Disappeared & glasses. Byro. ago blow on head & development of exileptic 300 jures freceeded by faintness also hot fleislies + head to secondary sex characteristics till the past 3ym. Extract. Pubic hair + hair on upper lip now. emission Iomonth ago. Judings. Subjective. Head aches, efüleplic attacks; hot fleeshes Objective - Hypotrichosis - skin soft skeletal Perimeter normal. Metabolism - 20. B.P. low. Op. Sept 19. I ramplewoid of Base of Sella removed. Termor did not extrude into opening + he feared bleading + leak age too much to enter substance Therefore closed, to remove the tumos from above another day.

Com Dolan 35: Sery No. 11,123 atralizations of x. says 8 yroago, + t. humanipas of the on heart of assessment of apileptic so freeeeled by famitiness also hat flewheat head iday sex enemoteristics till the past 34m. o which time he has had plenting. It. Public hain + has on when lip wow. on bounder ago. Head achor, efile his attacks; het plushes aud. Hey potri chosis - skin noft skelletst growth, adefority, aplacia gentimia els normal. Wetstolisin -20. P.F. lowet 19. Inanopolousia J. Buse of sella removed. or did not extende into opening , a feared ling . Mak age too news to witer autalouse for cased to remove the times woundbook ther day.

Call. R. Glionatous aget Gurporal toto. lates - Cs guly 31. 19. 9 years ago lock of aubition 4yrs. ago head aches L. perietato occipital. 2 months headache + vorieting ccasional but & continual nouse. Westable enos. ionally sies orientation. - ? 4. brought from Portland Oregon not cooperative on arrival. 4 stuperous. Pos. Findings. Subjective. Head ache-occipital, Voniting, unsteady gait Objective . Emotional instability. Dis orientation Bilsteral chope disc 4 5 D. States + intention tremord he Enlacieous souribility generally divisis isked. Some suboccipital tenderness. + flex in of head on chest gives faire. Exaggeration of tendon reflexes Laids, Pos. Romberg. ste from L.M.D. reported a L. horson smous herwises opsia X Ray - wide cated pressure in frontal region reap Dr. ausbing planned to do a R. Soni flap but after chaving head the veins on L. side of ocalp were more dilated + after demarcating in ciscon on R. he transferred to hodan "enspiration decided to doubt the above I hereise opsia + dida & subtemporal deen - Op. Subtemp. Decomp. Widnesd convolutions. needle in accord temps convol. to 6 cm. reg. in 3 & convol. 5 cm + got ownce of straw colored fluid 60cc in all Carral segringe + of osp. needle yet filled & 100/0 formalia for 5 min. We dosed in layers. Thud Sp. gs. 1.010, all. ++. Sugar O. Sed. O. für of. - uninate gyrus attacks. Virual bollucenations revious to op. described. - Ourset fiote deaf cause not opposed op. 3d R. neuse palsy. - Op. - explor. Let to assig eight had been extracted. It was not. Hence closure.

Call. R. Dionatorio apot Europon Poto es - Cs guly 31. ers ago lock of audition 4 yrs ago had aches to occipital. I months head acles , vonieting not but & continued warres. unatable sunot Aid orientedion. - PA. brought from Postland Oregon ratair on arrival. + stuperous. dings. Head ache occipital, bounting, unstrady gait is . Emotional instability. Die orientation ratelista live 45 D. Statis + intention bremord. h. na souri bility generally olimin is hed. subsociefital tendences of lex ing had in chest of said in chest on chest out. on borg. L.M.B. reported a L. homon mous tennion opsia wide cated presume in provided region yet ling planned to do a R. Jose flag but after shaving vins on the side of ocal proper dilated demancating in wiser on R. he transferred day uspiration decided to loubt the P. hemion oping + lida Questingoraldery but temp. Decoup. due ble in accord temps course? . may in 3 & counced. I can + got owner of atrans A flish 6000 is all Cerral cognings + of orfor reached - winists of no attaches varial holderinations to be surved of porces. Prote deaf came not of porces. R. nonex graley. I was a groot had been un trailed. It was in hours closure. Hours closure. A. J. 1.010, alb. ++. Sugar O. Sad. O.

? serous arachusiditis Joseph Paraboschi zune? . Hys. ags. pain in back of neck . It / ye ago occipital wasache. I mouths vomiting 4 yrs ago oguint corrected by bjection & sign - Drowey - lethongic Retended speach wis R. eyel St. on L. Chould disc. papils delated mesong falls to L. Mod Erophthalmes facial passis. I have fulls when horizontally held. esonance to head. Dil veins of head. Headon Leich + sight appenentended. Para pointing to L. a both hands. 1 3p. R. Subtemp. Decompression. Puncture of Lat. ventricles felt not justified in exploring over cetebolleum. by 3. Sub accipital Exploration for Presenced Cerebellar Leuron. no lesion exposed. Euromous cistern resembled tot be bodseun in hydroaphalus dere to serous Prachwoid itis. 3 No. July 24. altoupted brans suividal Drawige of Selated Ventricles . - Bone flap replaced & success 28 drainage hoew or hoge was too great. rarked improvement.

? serous exachusibilis In Paralosseli zume 200 no ago. pain in back of nuck. It 1 40 sogs cocifical le 2 montle voruiting 4 yro. a go og wint corre ted by In R. internal strates anua toos of rision.

on talking . 3 re was convulviered clared spead

of right . De on the cholded dis c. papers delated

of pale to the mode and training outably held.

as posserio. I have fulles when howing outably held.

dies iniched. Romberg poor to the book crocked pot
auce to look. It is your of head. Hoodon the aids a extended . Poss pointing to d. a both hands. 4. R. Sultenf. Saconfrancion. Princtico of hat ventricles no of complete absence of in coordination or of reptod him not justified in supering was certabellum.

Jours . much fleid with drawn. was no busion expresed. Euromous intern resemble he hodown in hydrocoflished deso to serous to July 24. altempted brown suisidal Grains Weted Ventrieles - Bone flat replaced & success drainings have worked was too great. bed improvement. and find bler wash land of the said of the of the state of th

Case. Cerebellar Cyst. - Lypical Philip Paus. Serg no. 10,883. 9. 6 months headachest nause-occipilal Tun left rideof head. Our duission frontal. Lead retracted. Hands pressed on forebead. ebjective fuiduigs Objective igginer, Luistus algrid Bilateral choked disc. 2-3 d. adaches, mostly frontal Suboccepetaltenderness Erercal regidely great painfroider calcues L. side flopia, Voniting. marked Lataria L. adiadococinedas L. He mus ceelas heppotorucity. Past pointing to L. Lucitus - L. Car. Brody cardia Pos Romberg + reeling gail. hystaguais courses to L. Geralion July 29. 19,9 Seeb accipital Exploration - Eyet of L. hemisphere othing extra cerebellar found to explain the limitus yneedle orly a few drops of strow colored fluid blanied. he further evidence.

? serous exachusiditio h Parabos chi zune 3. so ago. pain in back of neck. It 140 sags cocifiles . Smoutho varieting 4 yrs. ago ogwint constad by y R. internal strobis armed Loss of vision.

a talking 3 re cure convalisarion, suborded episch

a partie so and cholded disc papers delated

a fallo to t. nod. inophithelius.

by paris . E. had fullo when hoving outably held. him iniched. Romberg poo. to D. bock. nocked pot. stended . Poss pointing to d. a book hands. R. Sultanf. Seconformion Printers of hat ventricles of complete absence of in coordination and response of institute of my transcetchellum. Jours of new certabillum. Jours of new water with some of the fluid with drawn. In Considerate a for Presumed Carelles. on no lession expressed. Enormour interes resembles bodam in bydrosphalus des to serous with this attempted brown suisited maings ated Ventrieles - Bone flot replaced & surveyed having how whoy was too grant. singrocused. a translation where the same had been been a free the same of the The second second field and second special second s

Case. Cerebellar Cyst. - Lypical helip Paus. Serg no. 10,883. 2. 6 months headaches nause - occipilal un left ridor head. Ouodunission frontal. lead retracted. Hands pressed on forebead. zginers, Luistus agrid Bilateral choked disc. 2-3 d. adaches mostly frontal Suboccepetal tenderness Cervical regulety great painfroited flopia, Voniting. marked Lataria L. adiadococinedes L. He mus ceelas hypotoricity. Past pointing to I Limites - L. Car Brody cardea Pos Romberg + reeling gail. hystaguas courses to L. Heralion July 29. 19.9 Seeb accipital Exploration - Eget of L. hemisphere othing extra careballar found to explain the limitus yneedle relya few drops of straw colored fluid blanied. he further evidence.

Cure Cenebellar agos - Lypeal lif Paus. Leng no. 10, 883, 000 100 Commettes head actes name - veceptles Sylviday hist. Ouodunodion frantal. I rebracled. James privaced on for lead. icolis fuitur of Dilateral destrict 2-3 d. were Revealed Subocripeta Vendenceso hum Reich Terrapolis for dad greatfant rai pria, 1 miling Holowity Past poculing to L Lumber - Car Drady cardea as Hombergo reching gant hys lagurer courses to X. lion July 22, 19,9 be accipiled Exploración - Gest of l'herristhers ing extra cerchelles found to explain the himselin while only a per apos straw colored fluid wied. The further contenes.

Cases. gladys mulry. 21 yrs. Cerebellar ayst years Frontal head + vorniting attacks. 10 months failure of vision subjective Objective Disconfrascion not bulging. Headach Ofstic stroply trytheis R. subtemp decompress. Weshuers Belsteral Exofelethalius napower convergence for and formation of succession of the second Dizzeness Views greyelide dilated Blind Leye Romberg + Il. L. facial paresis Hallucinations of d. Laggering gait-to P? Choked dis cs 2-3D Past pointing L. boud R. Lemanopia of R. eyermy adiadococenesia L. second test of eye grounds showed above observation incornet it that the vertical merideau in the R. field did not woist but there was a little vision to left of meridians in cesual type of declining fuld from pressure. The first observation would have certainly made the lesion supratentorial. The visual allucinations ming he also suggest occipilal beion. Cerebellar aparation (3 tagegering gait, increased pressure, passpointing Suboccepital region amall. Blesdeing profuse from bone + musch huma princture of ventricle was done here. Bone thick instead of this as usual. The puncture showed large delated venetricle explose ing suboccipital lesion. Large aget & yellowish fluid found in mid line over 4 th reutriclo. a cap of cyst removed and a circle of silver claps stopped bogs. (Fixating levining & Benkers Fluid!) (hie) misleading fuld (nil Ocornect field Juman

glady muling 21 you consbellion lyst care Frontal heads voniting attacks. 10 months failured view d decompression. Vision not improved. He adocher his verdies احمد ما مداد K. war blever of Production Optic ot a play stain Bakusa Whatever explosion and Mariner Corners games e Barrer Vino gregolido allested 19 K pack range ellerimetions of h (A at ring out to R? QE-S with bullion Parthousing L. bound R. Sandardier J. R. repring and and a coveraging of. second text of self grounds showed about charaction interms that the vertical new shape is the R first distract upict of there was a little praise to left of new brand in week type between fill for first second in would is entouily and the lesion supra leutorial. The view shallon aparation (Staggaring goit, increased pressure, passpoulin coccifica negion amale. Blackeing propuse from born trues we four class of various be wonder has been this kindled in revenal. The puretime shound large delated ventriche lighted unoccepital haion, tangs agat & pellowish fluid formed i'd hive noon 4 the pertricle, a cop of eyest romoved and a wich low lespo a Copped Orge. (Tixation of living & Sunkers Heid!) D windowsking (anotheld Tuna

llig. Darego - 41 - Cerebellar Cyst. 10 months ago influenzo. - beadacles at first frontal, now suboccipital. Tired, sleepy, keeps her eyes dosed. Some change in temperament, 5-6 weeks voniting. 4-5 moults hiccoughs Subjective

Headaches (subscripted of times

Youting, historyhung Objective. Romberg Pos! - Falls to R. asynergia, reeling gait to K. Inability to stand or walk muscle power divin ished Transcent Sportaneous suplay mastip 2D. bilateral choked disc. Operation Heel shin a lettle in coordinate of. Belateral in cession. Because of protrusia a ventricular punctary wasnot be made. Large cypt in L. hunisphere 30 cc fluid. Walls fixed & Formalin. Cyster Fluid Sp. gr. 1.004 Engrounds normal als. ++ Eyegrounds normal. Sugar o gelatinouly.

go - 41 - areballos agot. Gostafratoron ishlad , lived pleify, beef his eyes a celd, some 3.54 5 has (subsect that or times), beautiful any orgina guest of guilton. Muscle former decision is but francision shortmens righty masty & to dans or wall 3D Whiters away & sion. Keel shin a letthingoodust t and in come. Because of produces a course produced a course of sometimes. capt in to humphers 3000 florid walls Tomalin. Cytis Flind In I. 1.004 nound normal. Sugar o splitmosty.

Case. Occoustis neuroma. own asse DD. Sys. 4 yrs. timitus, 3 yrs headache+ occ. vorinting 2/2 yes impair must of vision . Helucustins of sight + colon. - Head held to leps. Ludjective . Hadache Blinduss Quability to weel Objective houses in Lear. Bilat choke Dire 2D. Pupils dilated rystag mus, more marked on looking to R. Lose of L. conselly tocial overaction on L. Kinns nego in Lear Weber lateralized to R. Claria Lanus lag. adiadicomeria L. Past pointing l. hand? Suboccipilat tenderness L. handsido? Romberg keg. Seft acoustic neuroma surmounted by Large Delated Lateral Cestern. Bilateral Suboccipital Lone flap. To heft. a tunor size of pigeons egg was uncleated farms lower st. of post fossa. Tumor size of pigeons egg. Satisfactory convoles sence.

Occuptio neuroma our our Loupe 4 you timber 3 you hadache + occ vointing po surpair mus of vision. Hall voisting of angles + . - Head held to leps . in Hadache Blindus Guability to well horses in Lean. Silah chate Dur 2D while delated regard new marked on looking to R eof de conselector, facial overaction on t. ins my in the case over the said of the said of the conservation of the said over the conservation. Aprinting l. hand? howderide? nederg hig. tion Subsequelan Euneleation of targe + acoustic neuroma surmounted by ge beloket Latinal Centern. tend deboccifiled fore flag. to left a st of post folds. Tumo our of pegeon egg. factory convolenceus.

Surg. no 11,036 Case , Ciccola. Invulsion 12 yrs previously. Headadies same time parietal + accipital regions. 8 months ago sudden total findness & accasional remissions. Voniting frequent sustead iness. Imouth loss of seuse of smell Silateral choke disc, dullness. July 12 - R. rubtemporal lecompression reg fundings. "weeks later return & fundings below. Subjective Diff. in walking Bludnes Objective. In an optic atrophy
anosnie? anosmia? L. focial paresis L. adiadicon cinesia + asteres quois. Hypesthesia to Plight touch paint temp ? Complete loss of L. sided nus de seuse. Strinulat. of R. side body is dis agree able. Kg. + achilles maggerated on L. aukli Clonus + neg. Babuski: Myslagnius to R. Corjugate devito L. Myslagnius to R. Corjugate devito L. Dis closure of soft rascular, reddish tunion Of upper R. frontal emvolution. Protrusion of dura here disclosed tunior. Pulso high stopped Stopped. of. Sept. Bone defecteularged across long. sunus I forward. Tumor extruding fast & blood under scalp. Dura sucised along the sixte of the sines. Termor lucleated to bare fingers inverse & Dicklorouna To single drain \$99ms

Cux, Ricola Surg no 11,536 ion ligo premously sustadue same lune etal + accepital regions. Ementes ago end den total as coccational remissions, Comtains Juques Ead iness. month less of seuce of sunes dehobedies, dulliness. July 12 - Residentones wellion hay furdury. had when + improvement of anormia later returns & fundings below. tioc- Vill. in walking Blunderes tion. In side body, weakness here. there gras on of the stroply t fraid parens L. adiadiem cinain + asteres quois. reportering to reight touch prime temp is complete loss of t. sided number sense. Stringlad. of t. side body indis agreeable. Kg. + achilles maggereted on t. E auth Lone + neg. Bafushi: yelegnus to 19. enjugate desta f. 28. 28. 2 tog. astor last. Is closure of soft haveular villated turing of soft have convolution. The property such a since of the successful turing. Pulse high times. Pulse high times. Pulse high 4. Bore defect enlarged words long. survives ucided stong the sixty of the sines termer lunchested ingres books to beckling with surpresent to grow the grown

Ciccola continued copied from Dr. Cushing. المادود t of all 1st slage old decompression A. Mill Econd etage. - 2 kull Defect. and le June 7 Deration continued. Dasey tumor pedicle broken off and vessels ressed to either vide & fingers. ad reaction to operation + attempted transfusion Snaps (straight.

Snaps (straight.

Small cotton swabs

Periosteal Verator, jo

Meddle?

Perp. ent must be to atlas as it

Bone Bleeding otop

Bone exposed down to

and round bit

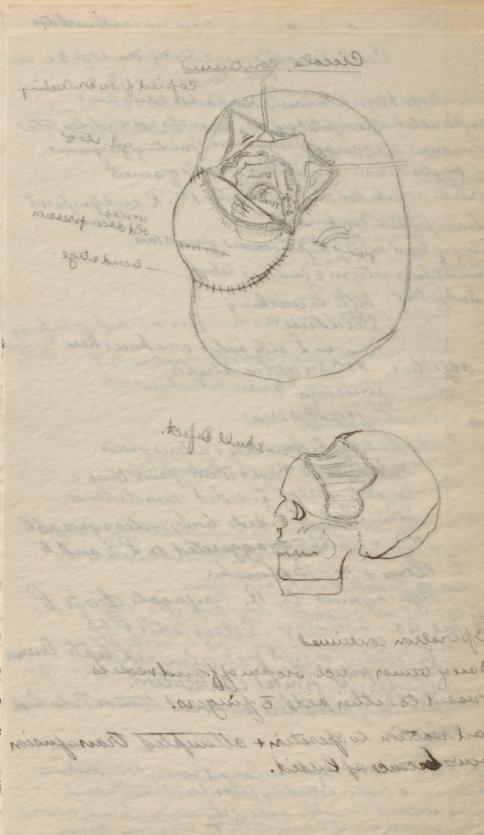
on sither side of a

hand broce + bit, be

Tongens of varions

Longens of varions

Spoon spotula under Spector hiserted + & Spoon spotula under Clarker Cura stopper lifted & Spatula for in and a shunt trock Small and of Shing



Janglion. Cushing (how High BS?)

Outline of encision - Patient on bead on side high table

over face + anaes- Chatist. Connell aff. other. Lucision defend Temporal artery cost canont. Gauge had been Shread over outline of incession. Good nerve at tos. of nucision from frow. Retractor delas temporal muscle down Tresmine- elec + hand and enlarged with rongens. apening bout Icm. in diameter Spatula to hold down brain. The mid meningeal is rought i cotton sponger. Bleeding from base of skull stopped to bone way Lenisphere reforted up & beld & spatula much use of cotton sporges. Deera is wested back a sed a little to wax gest as base of shull Ganglion exposed dura out a ating were hook buye. Then diska reflected by weping form ganglion Funtil the \$184 2 nd die + gang are exposed. The mid min uyeal art cordes up + over the lateral side of going is over 1 et branch! the root of gard is woulsed a spain of suisotus forceps finished aby a small flat brok. _____ D+ W. Tonetuice the sewson root alone may be evelsed: root out off in addition to ovulsion + removed. Head what raised for a time in order to lessen the flow of cerebro epinal fluid from nerve exits & lessen the blood flow. Inall siece of muche used as hemo-Static over dural bleeding. Acced fropped before closure to fill a corebrosp. fluid + cotch bleeders. Bore broin Rubber tissue sloced in nuiscle edges Gug. dut to stop bleeding Sills pasked through muscle 'edges + of ands held - Cavity filles & musice Coliner silks tied BrainLayer of silk at in very edge. Not tied tightly.

Since in the small french medde. Not tied tightly.

Line & interrupted silk in very edge of fascia. Cat gut would rip this fascia (Cushing) The silk burnet be wased.

fascia & dees layer of the scals close sincellaneously from one end to take dray off fascia. Vissels are not tied but only napped & latter languet in silk ties.

Shin closed a stress silk on straight needles.

Decompression. (Cushing) Lucision outlined by puife scratch. Beginning test. about the top of at 2 cut below top of ear + back of leup. branches of temporal act. Heriostasis by putting suraps on the apareceroses wat I cuy rutervals + allow weight of susper to occur Lucision throughfascia over toerf muscle through muscl, and periosteum with perios teal elevators. Hole e bit + to + electric power and enlargement à angeurs cepto about 6 cur in diameter. The fascia+ Sunscle is reflected lafted by decoupression retractors
Incision in dura parallel to above encision
mode by very contions outs excolpel while hold iteg up the dura & forceps. Groove direction suserted To silver clips. Three comeded flaps cut.

Lewisphere bulged out.

Losure (1) Suterrupled silkon suises french needle to inner layer of temporol. all tiedat on a. (2) Some outer laye. (3) paure

book in the fascia over muscle (only 3-4 secteures here. (Periosteem:) 4) aponeurosis - sauce. May finish many layers at one end to coac coax it together first. (5) Spin straight medle silks. - Silver foil + hary gouge. vaselen mides ear + back of it + cotton weder rim of ear then roller bandling go to Lead as a cap. mode by Willias. Most Dustrements from Codenan + Shurtleff Boston harontenovasi// giant like curved Sharps Smith made states made as a gift + not purchaseble. ilk- scalp. The Aff to 3 French Putestule needly, Waxed silk Boileck 5 min: Boil printer 30", Justruments 5-10, 9 poess. Cubber tissusperced in Soup , water to a stylical loving the so. 24 hrs. herse seruls up + puts in stiril gauge + leaves in 1-5000 Bealloride. es Tilk no cattaines. - turs and also cantery mude by

Done Flap. Preparation - Shade day of op. alcohol Bicklouide. Ou Unickness bichloride gauge over whole head a hole tomfor face Lucision previously outlined. Bicklouide towel about crown and thick rubber tourniquet. Jange cut & scessors over lucision. gray sheet e hole teed to heade strangs. Jucision through scalp, fuigers of two assistants on edges wound for hemostasis. Inops on galea q. 1012 cm. Suaps reflected out Held & gouge sponges. Perios teum reflected . Hole on 4 opholes Mode in circle of in cision & perforator + burn (Hudson) + nova wied. giggley saw carriers (Sometimes 2 to prevent saw ugung dura) + saw pulled through I beloing ceets Mode. Verios teal elevators ou each sede pry up the flap which breaks across. Cave splenter ing ento brain. Some-Exploration easy. Closure by careful approximation &

Pt. on back & bead thrown back in Rose position. Mouth gagt ether tube apparatus inserted. Thost spaged & sea sponges held by second museut special tofle. Face cleaned a lettle & sichloride. Beckloride towels to face till mouth & no searly showed. Chreuslin sponges in mores early. Upper life + tolk elaned - Upper life retracted. Frenenn in cised in laine of lip attachment. Endy septems removed. Mucous membrane elevated from septem by various small periosteafelevators. Septem removed To Ballinger knife and long duck bill rongens. Mucous manbrane allowed with high "might high"

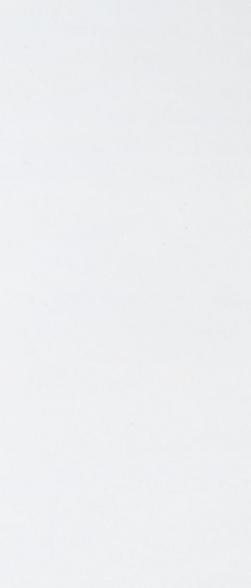
Itracted & deep retractors and muc. m. cleared deeper down.

stof septem removed. Bivalve Speculum "inserted, Sponging from time time & adrenalin and with hydrogen peroxide. Sphuroid keel eword till base of sellais exposed. This is go better sabout rongeurs and with the punch" Dura long deeral knife hook - never saw termor removed. He was seal sprom. To close. Dichloramine sponge placed in hares pohile 3 cat gut stitches are placotin fremme in cesion sponge removed on string + stitchestied. By Karge gauge I rubber tissue drains covered & vaselene inserted in either wares so Fend just does not press on back of (1) mouth gag Duck Bill Rongeurs. Kny-Schieren Co. Kny-Scherer M. y. (Saidpron-Sock co 129 Boyleron-agust) (3) Knife Hook. Kuife - Roil I muis. Solutions leved Wilms. Delators Sizes # 15 Sazzors etc " 3 min. Klotz-Jones Sol. Instruments "10 min. Zenka Formalia 10 of o.









Done Flap. Preparation - Shave day of alcohole Bichloride. Our Unickness bichloride gause over whole head a hole tou for Lucision previously outlined. Buchlouide towel and thick rubber tourniquet. Jange cut é si lucision. gray sheet e hole teed to heade strang Incision through seals, fugers of two assistants on s for hemostasis. Inops on galea g. 1012 cm. Suaps reflece + held & gauge sponges. Periosteum reflected? . Holon 40th made in circle of in cesion e perforator + burn (Hedson) + nows giggley saw carriers (Sometimes 2 to prevent saw mying dura) + saw pulled through I beloing cuts mode. Verios teal elevators ou lach sede pry up to which breaks across. Cave splenter ing weto bra Exploration easy. Closure by careful approximal

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retracted & deep retractors and muc. m. cleared deeper down. & lost of septem removed. Bivalve speculium inserted. Sponging from time to time & adrenalin and with hydrogen peroxide. Sphuroid keel and cells reasoned till base of sellais exposed. This is go better away & the about rongeurs and with the punch" Dura mised & long dural knife hook - never saw tumor removed. He was bypophyseal spoon. To close. Dichloramine Toponge placed in heares. covity while 3 cat gut stitches are placetin fremue in cession tres sponge removed on string + stitchested. By Karge gauge filled rubber tissue drains covered à vaseleur inserted in no either wares so Fend just does not press on back of salate. (1) mouth gag wilms (4) Chisel (Wilms) Duck Bill Rongeus. Kny-8cheren co. Kny-Scheerer h.y. (Sandpron-Sock co 129 Boyleston-agust) (Knife Hook. Kuife - Boil I muis. Solutions leved Wilms. Delators Sizes # 15 Serzions etc " 3 min. Klotz-Jones Sol. Instruments "10 min. Zenku Formalin 10 of o.

Transfrontal approach to Petertary region. Ducision just above the brow. Perforator + Beerr holes. & bone flap mode & The Succession Gegigley Daw. Bone flap reflected. The Cerebral hemspley holes & bone flap made c Ros L. herresphere topped if easily reached. reflected up. Roof of orbit hiseland swooth but not perforated. Peticitary region reached and derra cet à devral hoofte. Dissection & sponges. Lumos Rosere in loyers after replacing bone flap.

see Holdane - methods of air analysis oxford firess) H.n. Elnaer - Sieb. gorman Co. 1136 monadnock Bldg. by them.

Perimetry Line red. - Des cs. /4 (/2 cm deam) 10 (.25 diam) also 4/2 cum Dean 2 cm. Diam. Perimeter Black tin. Rege piece 11 inches from permeter M Eyepiece is center of sure phere of persuretes Perineter turned stopping to a click every 300. Horse shoe of light suimediately believed chair of perint. Large black back ground behind perunetes.

